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 <211> 733
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 <213> Homo sapiens
 <400> 1
 gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60
 aattcgaggg tgcaccgtca gtcttcctct tcccccaaaa acccaaggac accctcatga 120
 tctcccggaac tcttgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg 180
 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg accaggact 300
 ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg 360


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agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctgggc aaaggcttct 480
atccaaagca catcgcctg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ccttcttct ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
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gactctagag gat 733

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<210> 2
 <211> 5
 <212> PRT
 <213> Homo sapiens

<220>
 <221> Site
 <222> (3)
 <223> Xaa equals any of the twenty naturally occurring amino acids

<400> 2
 Trp Ser Xaa Trp Ser
 1 5

<210> 3
 <211> 86
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3
 ggcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aatgatttc 60
 cccgaaatat ctgccatctc aattag 86

<210> 4
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4
 gcggcaagct ttttgaaag cctaggc 27

<210> 5
 <211> 271
 <212> DNA
 <213> Artificial Sequence

<220>

<221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5
 ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
 gccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
 ttttgagggc ctaggctttt gcaaaaagct t 271

<210> 6
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR1 promoter sequence (Sakamoto et al., Oncogene 6:867871 (1991)); includes a Xho I restriction site.

<400> 6
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR1 promoter sequence (Sakamoto et al., Oncogene 6:867871 (1991)); includes a Hind III restriction site.

<400> 7
 gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8
 <211> 12
 <212> DNA
 <213> Homo sapiens

<400> 8
 ggggactttc cc 12

<210> 9
 <211> 73
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer with 4 tandem copies of the NFkB binding site (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the

SV40 early promoter sequence, and a XhoI restriction site.

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<400> 9
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg      60
ccatctcaat tag                                     73
/

<210> 10
<211> 256
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes NFkB
binding sites.

<400> 10
ctcgagggga ctttcccgga gactttccgg ggactttccg ggactttcca tctgccatct      60
caattagtcg gcaaccatag tcccgcacct aactccgccc atcccgccc taactccgcc      120
cagttccgcc cattctccgc cccatggctg actaatTTTT tttatttatg cagaggccga      180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg      240
cttttgcaaa aagctt                                     256

<210> 11
<211> 2703
<212> DNA
<213> Homo sapiens

<400> 11
ggcacgagat ttcctacagg tgaaacgcca tcattaggat tcaactgtaac gttagtgccta      60
ttaaactcac tagcattttt attaatggcc gttatctaca ctaagctata ctgcaacttg      120
gaaaaagagg acctctcaga aaactcaca tctagcatga ttaagcagt cgcttggtcta      180
atcttcacca attgcatctt tttctgccct gtggcgTTTT tttcatttgc accattgatc      240
actgcaatct ctatcagccc cgaaataatg aagtctgtta ctctgatatt tttccattg      300
cctgcttgcc tgaatccagt cctgtatggt ttcttcaacc caaagtttaa agaagactgg      360
aagttactga agcgacgtgt taccaagaaa agtggatcag tttcagtttc catcagtagc      420
caaggtgggt gtctggaaca ggatttctac tacgactgtg gcattgtact acatttgcag      480
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aaacacttga taaaatcaca cagctgtcct gcattggcag ggcttcttg ccaaagacct      600
gagggctact ggtccgactg tggcacacag tcggcccact ctgattatgc agatgaagaa      660
gattcctttg tctcagacag ttctgaccag gtgcaggcct gtggacgagc ctgcttctac      720
cagagtagag gattcccttt ggtgcgctat gcttacaatc taccaagagt taaagactga      780
actactgtgt gtgtaaccgt ttcccccgtc aaccaaatac agtgtttata gagtgaacct      840
tattctcatc tttcatcttg gaagcacttc tgtaatcact gcctgggtgc acttagaaga      900
aggagaggtg gcagtttatt tctcaaacca gtcattttca aagaacaggt gcctaaatta      960
taaattgggtg aaaaatgcaa tgtccaagca atgtatgac tgtttgaaac aaatatatga      1020
cttgaaaagg atcttaggtg tagtagagca atataatggt agttttttct gatccataag      1080
aagcaaatct atacctattt gtgtatttaag cacaagataa agaacagctg ttaatatatt      1140
ttaaaaatct attttaaaat gtgattttct ataactgaag aaaatatctt gctaatttta      1200
cctaattgtt cctccttaat ctcaggacaa cttactgcag ggccaaaaaa gggactgtcc      1260
cagctagaac tgtgagagta tacataggca ttactttatt atgttttcac ttgccatcct      1320
tgacataaga gaactataaa ttttgtttaa gcaatttata aatctaaaac ctgaagatgt      1380
ttttaaaaca atattaacag ctgttaggtt aaaaaaatag ctggacattt gttttcagtc      1440
attatacatt gctttggtcc aatcagtaat tttttcttaa gtgttttggtg attacactac      1500
tagaaaaaaa gtaaaaggct aattgctgtg tgggttttagt cgatttggct aaactactaa      1560
ctaattgtgg ggtttaatat tatctgaggg atttggtggc ttcattgtaat gttctcatta      1620
atgaatactt cctaatatcg ttggctctac taatattttc caatttgctg ggatgtcacc      1680

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tagcaatagc	ttggattata	tagaaaagtaa	actgtgggtca	atacttgcat	ttaattagac	1740
gaaacgggga	gtaattatga	cacgaagtac	ttatgtttat	ttcttagtga	gctggattat	1800
cttgaacctg	tgctattaaa	tggaaatttc	catacatctt	ccccatacta	ttttttataa	1860
aagagcctat	tcaatagctc	agaggttgaa	ctctgggttaa	acaagataat	atgttattaa	1920
taaaaataga	agaagaaaaga	ataaaagctta	gtcctgtgtc	tttaaaaatt	aaaaatttta	1980
cttgattccc	atctatgggc	tttagaccta	ttactgggtg	gagtctttaa	gttatatttg	2040
ttcaatatgt	tttttgaaca	gtgtgctaaa	tcaatagcaa	acccactgcc	atattagtta	2100
ttctgaatat	actaaaaaaaa	tccagctaga	ttgcagttta	ataattaaac	tgtacatact	2160
gtgcatataa	tgaattttta	tcttatgtaa	attattttta	gaacacaagt	tgggaaatgt	2220
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agactgttaa	attgtggttt	atatactttt	tgcattgtaa	atagtccttg	ttgtacattg	2340
tcagtgtaat	aaaaacagaa	tctttgtata	tcaaaatcat	gtagtttgta	taaaatgtgg	2400
gaaggattta	tttacagtgt	gttgtaattt	tgtaaaggcca	actattttaca	gtttttaaaa	2460
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cctaattaaa	aggttttttc	caaaattcag	gttattgaaa	atttttcatt	ttattcattt	2580
aaaaactaga	ataacagata	tataaaagtg	ttaatccttg	tgctatatgg	tatgaaatac	2640
aatattgtac	tcagtgtttt	gaattattaa	agtttctaga	aagcaaaaaa	aaaaaaaaaa	2700
aaa						2703

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 <211> 459
 <212> DNA
 <213> Homo sapiens

<400> 12						
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acctcagctt	gtggctcttg	gccccagcc	ccaccaacc	acctgttcat	ttattcaaca	120
gacaatgaca	gctgatattt	attggacatt	tgcaccatgc	caagcattcg	gcttggatta	180
tcccatttgt	ttctcacagc	cggtatttat	tgtctgtctc	tctgtgccag	gtgctgtgct	240
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gctgacccaa	gccacccca	ttgccaacag	ggccagggca	agagtacaca	caggggcctc	360
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<210> 13
 <211> 760
 <212> DNA
 <213> Homo sapiens

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 <222> (13)..(13)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (300)..(300)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (425)..(425)
 <223> n equals a,t,g, or c

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acacaaaacc	ccgtaaaatc	acaaagaaaa	tccaacacca	aaggcgcgaga	agccggctgg	120

ccgtggtggg	ggcagcgtag	gcgtasatcc	ctctcctctc	aattagcctg	ttgactcttg	180
ttattatcat	gatattcaca	aaacgccgca	tgtttaaaaa	gtcatagatg	tcattcttctc	240
tctgccccca	gggaggaaaag	ccaccttctc	ttgccccttg	gcccctttgt	caggggccaan	300
gggtctgccg	ggtgggggtg	ccaacaggcc	tgggcctttc	ctcccctgca	tccagccatg	360
ggggcctctg	cgattgccgg	aaggttgcat	ggctgggtccc	agggccagca	caggccccgag	420
gccgngctgc	ctggttttat	ttttatttaa	ctttattttc	tgttttatga	gtgtgtgtcc	480
gcccaccccc	acccccttca	gtgttaagtg	gggagccctg	ggggagtctc	tcctgcctcc	540
cagcctctcc	caagacctcc	cccctcgtca	ccagccacc	ctctggacca	ggcagagggc	600
ggaccgggtg	ggcagggggc	tgaggggtggc	tcggggccagc	ccaccagcca	atggaccctt	660
cctcaggccg	ccagtgtcgc	cctgcccctt	tttaaaacaa	aatgccctcg	tttgtaaacc	720
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<210> 14
 <211> 1445
 <212> DNA
 <213> Homo sapiens

<400> 14						
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tcctgaagct	gttttaggaat	attcatgata	tacccttaac	tgttctagag	aacaaaatgc	120
gtctgtgtctc	cttcacaaaa	gtccctatga	at ttgtttt	caatgtgatc	cttcttaagt	180
tctataactt	tttgtttttca	ttaatttttag	gaaaatcctg	ccttgcttcg	ttgggcctat	240
gcaagaacaa	taaatgtcta	tcctaatttc	agaccactc	ctaaaaactc	actcatggga	300
gctctgtgtg	gatttggggc	cctcatcttc	atttattata	ttatcaaaac	tgagagggta	360
agtattcaga	ccagatgttt	agtatttgag	tgataggttc	actttctagg	gaccagctgc	420
agctccttct	cttgaagatt	gccaccagtg	cccctcccac	cttggggctg	tcctctgcct	480
tcccttctctc	tcttctttta	tctttattcc	tttccagcag	gagttaaaac	agaaagt ttt	540
cagtcacctt	tgtctat ttt	tgttagttca	ttgtttttt	aaaaagatga	tgttttattgg	600
gttaagtatt	agcagaatac	ataaatcatt	tagtacgttt	cctgtttgcg	tgaattctat	660
ttatgtttgg	cacatttttg	aaattaatgt	taaaacctat	taatactcta	cgggacagag	720
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agaaagtcaa	gctgatcttt	ggcaccaaac	cattccacat	ctgggtactaa	accctgagct	840
gcagccccca	ggcttgtgtt	gccactggag	cccactcgtc	tagctttgtc	tttaactggc	900
ccatctgcat	tcccattaga	gttcgtgtat	tttgattatc	tggtgaatga	tctacttaac	960
agaaaggtag	tccacatttt	cccagaaagt	gtttgcattt	tgctttcaat	atatggtttt	1020
atggggataat	atattttctaa	tgactaaaat	gtgagtaaga	tgtttttgaa	taggagcatt	1080
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tgtgccaaaa	tgcagttttt	cttacctttt	ttattttatt	at tttttatct	aatatagcca	1260
actggcagaa	tattattgtct	ttaatgtact	ttttttctgt	ctttacagga	taggaaagaa	1320
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aaaaa						1445

<210> 15
 <211> 1333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (411)..(411)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1264)..(1264)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1319)..(1319)

<223> n equals a,t,g, or c

<400> 15

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cctcttcagc ttccccatat ccctcatcat gctgggtggtc agctgggttct ggatgcaactg 120
gctgttccctg ggcttcaatt ttaaagagac ctgctctctg agcaagaaga agaagaccaa 180
aagggaacag ttgtcagaga agagsmtcca agaagaatat gaaaaactgg gagacattag 240
ctaccacagaa atgggtgactg gwtttttctt catcctgatg acgtactgt ggtttamccg 300
ggagcctggc tttgtccctg gctgggattc tttctttgaa aagaaaggct accgtactga 360
tgccacagtc tctgtcttcc ttggcttccct cctcttccctc attccagcga nagaagccct 420
gctttgggaa aaagaatgat ggagagaacc aggagcactc actkgggacc gagcccatca 480
tcacgtggaa ggacttccag aagaccatgc cctgggagat tgtcattctg gttgggggag 540
gctatgctct ggcttctggg agcaagagct ctggcctctc tacatggatt gggaaccaga 600
tgttgtccct gagcagcctc ccaccgtggg ctgtcaccct gctggcatgc atcctcgtgt 660
ccattgtcac tgagtttgtg agcaaccacg caaccacac catcttccctg cccatcctgt 720
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gcatctcctt tgcagtgatg ctgcctgtgg gcaatccccc taatgccatc gtcttcagct 840
atgggcactg ccagatcaaaa gatattggga aagctggcct gggagtgcaac gttattggac 900
tggtgatagt aatggtggcc atcaacacct ggggagttag cctcttccac ctggacactt 960
accagcatg ggcgagggtc agcaacatca ctgatcaagc ctaacgccaa gtgtacaaac 1020
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actaggacca ccaggagcac acaaccccag acccagcgcg gagggcatcc ctccaccaga 1140
agattccgcc acctcaagtg aactgcagga atcctccaac aaccacaaac acatgcttcg 1200
ctgttagtgt ctcttccctg ccctcagcac cacagctcaa gaaaacctaa agtttcaata 1260
caanccatag gctcacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaa 1333
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<210> 16

<211> 1382

<212> DNA

<213> Homo sapiens

<400> 16

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acgagtgcgg gcagcagcag ccccggcacg mgggagagag acaaagcatg gaggacacaa 60
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attgctgggc gtctggacat ctgtacctgt cgtttggttt gatcttggtt ttgatgagca 180
gattactagc caaagcaaaag gacttccgtt ataacttatc agagggtgctt caaggaaaac 240
taggaatcta tgatgctgat ggtgatggag attttgatgt ggatgatgcc aaagttttat 300
taggcctgac caaagatggc agtaatgaaa atattgattc tcttgaggaa gtccttaata 360
tttttagcaga ggaaagtcca gattgggttt atgggttccct ctcatctctc tatgatataa 420
tgactccttt tgaaatgcta gaagaagaag aagaagaag cgaaaccgca gatggtgttg 480
atggtacgtc acagaatgaa ggggttcagg gaaagacttg tgtcatattg gatttacata 540
accagtaacc ttgattcagg gactgaagtc attggctaata gaacacctga agcagcctcc 600
tttttctttt ctcttccctgg cttatgcagg gcttaatgtg cagtgggggtg gttgtgatct 660
taccgtgcaa gtcaaccatg tgatcttgcc cagtacagct actagcctag tcccttctc 720
gctcagctcc cccaacttct attgaagaaa atggtactcc tcattcttgt agtcagctac 780
aaagtacact gaaaatgatg ttcttggttg tataattggg ttctgtatcg ttttgtttca 840
actcatgtat tcaactgaact aaatttgagc acttaacagc aaattgtgtt gtggttaacc 900
cttgatgctt gtctttctaa cacactatta attatgatga ttctaattga tttcattata 960
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cagatagggt catacaaaat taaaagtaaa attctgtggt aatggtgctt taaaataat 1140
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ttaaaaataa	ctccatgttt	ttgccttaga	gtaagttaac	ttactgtttt	cagatagtag	1200
catgacatat	ttctgtctgt	gaaagcaaaa	tttattttta	atthttatttc	caaataataca	1260
tccagagaaa	gtaatttgta	ttttttttta	agtaggcata	ttacacaaga	gggaacatgt	1320
gaatatgtat	cttaatgttg	tacataggga	aattatticat	cctaaaaaaa	aaaaaaaaaa	1380
aa						1382

<210> 17
 <211> 1734
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1714)..(1714)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1719)..(1719)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1723)..(1723)
 <223> n equals a,t,g, or c

<400> 17						
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gggatgaaa	ttcttctgga	catcctcctg	cttctcccgt	tactgatcgt	ctgctcccta	180
gagtccttcg	tgaagctttt	tattcctaag	aggagaaaat	cagtcaccgg	cgaaatcgtg	240
ctgattacag	gagctgggca	tggaattggg	agtgactg	cctatgaatt	tgctaaactt	300
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<210> 18
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 <223> n equals a,t,g, or c

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 atcatacagg ctccctcatct acaaagttcc agtagcagt acgcctacac ggaagacttg 660
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<210> 19
 <211> 1313
 <212> DNA
 <213> Homo sapiens

<400> 19
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<210> 20
 <211> 752
 <212> DNA

<213> Homo sapiens

<400> 20

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<210> 21

<211> 879

<212> DNA

<213> Homo sapiens

<400> 21

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<210> 22

<211> 2761

<212> DNA

<213> Homo sapiens

<220>

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<222> (1006)..(1006)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1376)..(1376)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2211)..(2211)

<223> n equals a,t,g, or c

<400> 22

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<210> 23

<211> 2849

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

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<210> 24
 <211> 755
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<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (733)..(734)

<223> n equals a,t,g, or c

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<210> 25

<211> 4129

<212> DNA

<213> Homo sapiens

<400> 25

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<212> DNA
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<211> 2005

<212> DNA

<213> Homo sapiens

<400> 28

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 <213> Homo sapiens

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<211> 1756

<212> DNA

<213> Homo sapiens

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aaaaaaaaaa	aaaaaa					1756

<210> 32

<211> 1675

<212> DNA

<213> Homo sapiens

<400> 32

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caaacaacaa	aaaactatca	aatgaaaaga	aaatgtactc	aacctaacct	atagtttagca	180
gctggaattc	tcaactcttc	cctgccagca	ctataccaca	gtgtggaaga	aattagtcaa	240
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tctctcaaag	cggttgctta	tatcgttaag	aatgaagggt	tgtgttttaa	atttattgca	360
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aaatggggtc	agattccatc	agattccacc	tctgtcagg	ggactcttgt	ctgccttcca	600
tgatgagatt	ttttttctcc	ttcccctttc	tttaagagag	gctgacagat	ctagggtgtca	660
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<210> 33

<211> 910

<212> DNA

<213> Homo sapiens

<400> 33

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atcggggccc	tgggaagcgc	ctgtctatcc	cgggggcagg	acctgagcgc	ccctgaccct	180
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ctgaagtgg	gtgcttgggt	cgctgtctac	tgctccttca	tcagctttgc	caactctcgg	360
agctcggagg	acacgaagca	aatgatgagt	agcttcatgt	gagacttgcc	ctacagaaca	420
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caccctaggg	ttaccctcc	tgctcctcct	cccctgcctg	ctgctggggg	agatgctgtc	780
catgtttcta	gggggtattca	tttgctttct	cgttgaaacc	tgttggtta	aaagtgtttc	840
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<210> 34

<211> 821

<212> DNA

<213> Homo sapiens

<400> 34

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ctagtaataa	ttggtttgcg	taatacaaa	ttctactggg	tagtgatgtt	gtagaagttc	180
atatagaatc	agctgagctt	tcagaaatgg	tgaagggtg	gtaatagtca	taacttagat	240

tgtaattttt	ttcccatagg	cttttaaaaa	atattcatga	ggttcctttt	ttatttcaat	300
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gatttttggtg	cacctgtcat	gtgagcagta	tgaactctac	tttatgtgta	gtcttatccc	420
tcatgtgtat	gaactccacc	ttatgtgtag	tcttatccct	caccactcc	tgcccttccc	480
cacaagtccc	caaagtccat	tatagatct	ttatgccttt	acatcttcac	agtttagctc	540
tcacacaact	tattataaatt	tataagtaag	ccagcattgg	atatagttgt	attccattat	600
taattttaaga	aaccttatgc	aagtaattat	tagtcatcat	cccaaaaaaa	agggagaaca	660
gggttagatt	cagaatactt	tgataagagc	taaatactat	catgagtgt	gtcaggtgt	720
agtaactttc	cattgggtatt	ctatgtcttt	taggcttaca	gatacttttt	acactcttac	780
aaaatgtgca	caagaagaag	ctgcagctca	gagctcgtgc	c		821

<210> 35
 <211> 981
 <212> DNA
 <213> Homo sapiens

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cccatgggca	actgccaggc	agggcacaac	ctgcacctgt	gtctggccca	ccaccacct	180
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<210> 36
 <211> 1038
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n equals a,t,g, or c

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gcatcataga	aaaaatgctc	ttactgttga	aaacattatt	tgttacattt	tggtcaacta	120
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taaatggcag	ctgacagcat	gaaaataaca	tatctaatat	tttgtgacta	tcttattagg	240
aaaatcagag	aatttcaaaa	ccttgttagt	ttttagggtg	tagtcacatt	ttataaatgt	300
gcggtatatt	tatacatgat	ttgacgtttg	tgwaaatatt	ttccctgga	ttttatttta	360
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agactcatcc	ccatgctaaa	attatagttg	tkaaaatacg	cttttgtaaa	tagttgtgtt	480
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<210> 37
 <211> 843
 <212> DNA
 <213> Homo sapiens

<400> 37						
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cagaggagcc	aggacactgt	gtggcccaat	ctgaggttgt	caaggaaggt	tgctccatct	360
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ttg						843

<210> 38
 <211> 1061
 <212> DNA
 <213> Homo sapiens

<400> 38						
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a		1061

<210> 39
 <211> 601

<212> DNA
 <213> Homo sapiens

<400> 39
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 catgttttgc atatagtttg tttattgtca ttgccataga gtaaatcatt gtatgaatat 360
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 a 601

<210> 40
 <211> 1411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1395)..(1395)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1397)..(1397)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1401)..(1401)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1408)..(1408)
 <223> n equals a,t,g, or c

<400> 40
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 tgtaactggg gaaaatcaag atgggtacctc tctgcattat cccgccagac actgtatttt 180
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 aatggtgctt tctccctggg cttgtctttt tggtgttttt ttccctata ttcagagctc 360
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 acatactcaa gcctcagcct gtttagttgt ttctactggg gctcgctttt ctgggacggt 780
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<210> 41
 <211> 1554
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (695)..(695)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (874)..(874)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1190)..(1190)
 <223> n equals a,t,g, or c

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<210> 42
 <211> 1276
 <212> DNA
 <213> Homo sapiens

<400> 42
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<210> 43
 <211> 2084
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2075)..(2075)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2083)..(2083)
 <223> n equals a,t,g, or c

<400> 43
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<210> 44

<211> 1765

<212> DNA

<213> Homo sapiens

<400> 44

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aaataaaatt	ggagtattgc	tttttctgta	ttctgtatta	ctgacaaagg	gcattgaaaa	180
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cagccaaagt	ttaattaatc	tctgtctgac	gggacatgct	gtttctaata	tatgggattg	300
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<210> 45
 <211> 2494
 <212> DNA
 <213> Homo sapiens

<400> 45						
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<210> 46
 <211> 1509
 <212> DNA

<213> Homo sapiens

<400> 46

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tgggtctcaa	tatataggaa	ttgcctttct	ttagtcttca	ggactattgt	gtgaaaacaa	240
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<210> 47

<211> 885

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (233)..(233)

<223> n equals a,t,g, or c

<400> 47

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<210> 48
 <211> 1261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (481)..(481)
 <223> n equals a,t,g, or c

<400> 48
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 gtcattcctt cccgttccct tcatagaata ctactttttc cttttgtctc ctggccattc 180
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<210> 49
 <211> 790
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (37)..(37)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (55)..(55)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (76)..(76)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (112)..(112)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (120)..(120)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (137)..(137)

<223> n equals a,t,g, or c

<400> 49

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acgcctgcag	gtaccgggtc	ggaattcccc	ggtcgaccca	cgcgctccgt	tgaatgcact	360
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aatgtacagt	tccttctgaa	gcaagcaaca	tcagcagcag	cagcagcagc	agcacaattc	720
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aaaaaaaaaa						790

<210> 50

<211> 3576

<212> DNA

<213> Homo sapiens

<400> 50

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<210> 51

<211> 1343

<212> DNA

<213> Homo sapiens

<400> 51

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gcctctggtt	ctgggtgagg	ttatttgcag	gtggagacgg	ggggctgcac	ctgaacattt	180
ctagtgtcac	cctccctctc	cttcatggga	aacagctctc	cagggaaagta	ccttccctgcc	240
aggggaagcc	aaggctgggc	cggccgccct	acaaggagcc	agggattgc	agccatgggt	300
gccacctttc	atggaagggg	agattttatg	gctttccttg	aacccccagg	ctgtccctggc	360
caagaggaaa	gaggtgggta	cttcaggagt	ttgaccttag	ttagataact	aaaagaatac	420
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cacctgcatt	gctctccctc	gtgctcccca	aatcaccaca	accaaccaat	accgcaatcc	1260
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ttttgaaaaa	aaaaaaaaaa	aaa				1343

<210> 52
 <211> 712
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (44)..(44)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (56)..(56)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (128)..(128)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (625)..(625)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (692)..(692)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (699)..(699)
 <223> n equals a,t,g, or c

<400> 52						
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caccgcgntg	gcggccgctc	tagaactagt	ggatcccccg	ggctgcagga	ttcggcacga	180
ggtttcctgt	cagtgttatt	gagattttat	tttattaatg	tctgcactta	gttttacttc	240
ctactttcta	cttttattga	gagttaaacc	tgttgaagtc	tcagttcaa	ttcctcacc	300

tgagcaacct	aatgttttat	gtcttgttct	tcctacattt	ggttattgaa	actgaagttt	360
taggttacca	gatttgatag	aagcacataa	gactacttac	tgctttagtc	tcaattatta	420
attgagaaat	tatcaattaa	caataaggat	ttctcttatt	tttccccaag	ataagttata	480
tatttaaagt	gtgttttata	gtagaaaggt	tttagaatat	ttgggttgct	acattaattg	540
aaatggcagc	tgaagatgtg	atttcagcc	agggatttat	taaaaaaaaa	aaaaaaaaac	600
tcgagggggg	gccgtaccca	atcgnctat	agtgagtcgt	atacaatcac	gggcgtcgtt	660
acacgtcggg	ctggaaacct	gcgtaccact	ancgtctgcn	acacccttc	gc	712

<210> 53
 <211> 1089
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (353)..(353)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (528)..(528)
 <223> n equals a,t,g, or c

<400> 53						
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ctctactcgt	gcggtgcttc	ttctccttgg	catacagctc	acagctcttt	ggcctatagc	180
agctgtggaa	atttataoct	cccgggtgct	ggagctgtt	aatgggacag	atgctcgggt	240
aaaatgcact	ttctccagct	ttgcccctgt	gggtgatgct	ctaacagtga	cctggaattt	300
tcgtcctcta	gacgggggac	ctgagcagtt	tgtattctac	taccacatag	atnccttcca	360
acctatgagt	gggcggttta	aagaccgggt	gtcttgggat	gggaatcctg	agcgggtacga	420
tgctccatc	cttctctgga	aactgcagtt	cgacgacaat	gggacataca	cctgccagggt	480
gaagaaccca	cctgatgttg	atggggtgat	aggggacatc	cggctcancg	tcgtgcacac	540
tgtacgcttc	tctgagatcc	acttcctggc	tctggccatt	ggctctgcct	gtgcactgat	600
gatcataata	gtaattgtag	tggtcctctt	ccagcattac	cggaaaaagc	gatgggccga	660
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gagacaaaag	tcttctatta	gtcttatgga	tagctcctcc	ttgagtgtat	tttgtgcaaa	960
agattaagaa	gctggactct	actgccatta	aagctgagag	aatcctaagg	ttaaaaaaaa	1020
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1080
aaaaaaaaaa						1089

<210> 54
 <211> 1139
 <212> DNA
 <213> Homo sapiens

<400> 54						
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agaaagctca	taaaaagatg	cacaagcacc	aaaagcacca	caagtaccac	aagctaggca	480
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tgctgcttgg	ttagatcata	tagctaata	attaggcagg	ggagctatct	tttgaagatg	780
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<210> 55
 <211> 1222
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (772)..(772)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (796)..(796)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (823)..(823)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (855)..(855)
 <223> n equals a,t,g, or c

<400> 55						
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tggcccatth	cgaacactca	ggtatgtctg	tactcttagt	tcattctattc	atcattgttt	180
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aaactattat	aatcccatta	tttttattcc	tactattctc	ttttcagaat	ttctttttaga	360
tattccttgg	atagttttat	tcaatcctcc	atggctttca	gcttatctta	tgttctatct	420
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caccaaactt	ccagtgtatc	aatggccaga	aaataatcta	tatgttaatt	tgttaatttg	660
atggttcatg	gttcaaggct	gtataattta	aaagtttgaa	gtcaaacaac	acatgagggg	720
ataatcctga	tggttacagat	tctcaaggga	aaatatgtht	ttgttttttc	tnccaattgt	780
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actctttcaa	tctangtcca	rcatgtcatc	accccttcgc	tgatgagcat	taagaaaatc	900
caaatttggc	ccgggcgcgg	tggctcacgc	ttgtaatccc	agcacttttg	gaggccgagg	960
cgggtggatc	acgaggtcag	gagatcgaga	ccatcctggc	taacacgggt	aaaccccgtc	1020
tctactaaaa	atacaaaaaa	aaattagctg	ggcgtgatgg	cgggcgcctg	tagtcccagc	1080

tactcgggag	gctgcggcag	gagaatggcg	tgaacccggg	aggcggagct	tgcagtgagc	1140
caagattgcg	ccactgcact	cccgcctggg	ccacagagcg	agactccgtc	tcaaaaaaaaa	1200
aaaaaaaaaa	aaaaaaactc	ga				1222

<210> 56
 <211> 367
 <212> DNA
 <213> Homo sapiens

<400> 56						
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gaataatacc	acaacactta	tggcctgtct	tggaggcctt	ctggggatta	ttggtgtgat	120
atgtcttata	agctgcctct	ctccagaaat	gaactgtgat	ggtggacaca	gctatgtgag	180
gaattactta	cagaaaccaa	cctttgcatt	aggtagcctt	tatcctcctc	tgataaatct	240
ctgggaagca	ggaaaagaaa	aaagtacatc	actgaaagta	aaagcaactg	ttatagggtt	300
accaacaaat	atgtcctaaa	aaccaccaag	gaaacctact	ccaaaaatga	aaaaaaaaaa	360
aaaaaaa						367

<210> 57
 <211> 875
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (872)..(872)
 <223> n equals a,t,g, or c

<400> 57						
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ggcaggaagc	cgtgtctgca	gaggctcctc	cctgcctcag	gtggccccgt	tcaaccccag	180
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 <211> 320
 <212> DNA
 <213> Homo sapiens

<400> 58						
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<210> 59					
<211> 2777					
<212> DNA					
<213> Homo sapiens					
<400> 59					
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aaaaaaaaaa aaaaaaaa 2777
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<210> 60
<211> 710
<212> DNA
<213> Homo sapiens
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<400> 60
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agccaggctg agaaaaacagt tactcacatt gagcagttag tgaccactag gtgggcattt 180
gttcatagct gcatggagaa caagtgccca tatacatctt tctgctgatg cagcctctaa 240
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<210> 61
<211> 1540
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> (651)..(651)
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (1124)..(1124)
<223> n equals a,t,g, or c
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<210> 62
 <211> 1421
 <212> DNA
 <213> Homo sapiens

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<210> 63
 <211> 1477
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n equals a,t,g, or c

<400> 63						
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<210> 64

<211> 3447

<212> DNA

<213> Homo sapiens

<400> 64

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<210> 65

<211> 2312

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2312)..(2312)

<223> n equals a,t,g, or c

<400> 65

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<210> 66

<211> 3037

<212> DNA

<213> Homo sapiens

<400> 66

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<210> 67
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 <212> DNA
 <213> Homo sapiens

<400> 67						
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<210> 68
 <211> 1256
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1079)..(1079)
 <223> n equals a,t,g, or c

<400> 68						
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<210> 69
 <211> 1057
 <212> DNA
 <213> Homo sapiens

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<210> 70
 <211> 2683
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2640)..(2640)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2676)..(2676)
 <223> n equals a,t,g, or c

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<210> 71
<211> 2687
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1614)..(1614)
<223> n equals a,t,g, or c

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<400> 71

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<212> DNA

<213> Homo sapiens

<400> 72

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 <211> 4893
 <212> DNA
 <213> Homo sapiens

<400> 74

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<211> 1410

<212> DNA

<213> Homo sapiens

<400> 75

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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

<400> 84						
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 <212> DNA
 <213> Homo sapiens

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<211> 766
<212> DNA
<213> Homo sapiens

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<222> (670)..(670)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (713)..(713)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (721)..(721)
<223> n equals a,t,g, or c

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<213> Homo sapiens

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<400> 88

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<211> 3533

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (44)..(44)

<223> n equals a,t,g, or c

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<210> 91

<211> 1434

<212> DNA

<213> Homo sapiens

<400> 91

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<210> 92

<211> 867

<212> DNA

<213> Homo sapiens

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<400> 92
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<210> 93
<211> 1558
<212> DNA
<213> Homo sapiens

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gaaactgaat ttcagagatg tcaggtaacc tgccacttc acacactagg agttttgatg      180
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<210> 94
<211> 2199
<212> DNA
<213> Homo sapiens

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<211> 1392

<212> DNA

<213> Homo sapiens

<400> 95

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cagatgtctc	tatgattaat	ttttggcctg	tcactcatgt	ttgetatgg	ctgttgtggc	180
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 <212> DNA
 <213> Homo sapiens

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<210> 97
 <211> 832
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (831)..(831)
 <223> n equals a,t,g, or c

<400> 97						
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 <212> DNA
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 <223> n equals a,t,g, or c

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<210> 99
 <211> 921
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (4)..(4)
 <223> n equals a,t,g, or c

<220>
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<220>
 <221> misc_feature
 <222> (901)..(901)
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 <213> Homo sapiens

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 ttaaaaaaaaaa aaaaaaaaaa aa 442

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<210> 102
 <211> 1336
 <212> DNA
 <213> Homo sapiens

<400> 102						
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<210> 103
 <211> 1129
 <212> DNA
 <213> Homo sapiens

<400> 103

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 <212> DNA
 <213> Homo sapiens

<400> 104						
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<210> 105
 <211> 1345
 <212> DNA
 <213> Homo sapiens

<400> 105						
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<210> 106

<211> 1347

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (83)..(83)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (334)..(334)

<223> n equals a,t,g, or c

<400> 106

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<210> 107

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (41)..(41)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (49)..(49)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (64)..(64)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (607)..(607)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (621)..(621)

<223> n equals a,t,g, or c

<400> 107

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<210> 108

<211> 669

<212> DNA

<213> Homo sapiens

<400> 108

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<210> 109

<211> 1271

<212> DNA

<213> Homo sapiens

<400> 109

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<210> 110

<211> 802

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (105)..(105)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (730)..(730)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (755)..(755)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (757)..(757)

<223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (777)..(777)
 <223> n equals a,t,g, or c

<400> 110
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 taccacctgg actgctttgc atgtcagctt tgtaatcaga gattntgtgt tggagacaaa 120
 tttttcctaa agaataacwt gaycctttgc caracggact acgaggaagg tttaatgaaa 180
 gaaggttatg caccmcmggt tgcgtgatct atcaacatca cccattaag aatacaaagc 240
 actacattct tttatctttt ttgctccaca tgtacataag aattgacaca ggaacctact 300
 gaatagcgta gatataggaa ggcaggatgg ttatatggaa taaaaggcgg actgcatctg 360
 tatgtagtga aattgcccga gttcagagtt gaatgtttat tattaagaa aaagtaatg 420
 tacatatggc tggatttttt tgcttgctat tcgtttttgt gtcacttggc atgagatggt 480
 tattttggac tattgtatat aatgtattgt aatatttgaa gcacaaatgt aatacagttt 540
 tattgtgtta ccatttgtgt tccattttgt yctttgtatt gttgcattta gtacaatcag 600
 tgtttaaact tactgtatat ttatgctttc tgtatttacc agctatttta aatgagctgt 660
 aactttctag taaagaattg aaaaagcaaat cctcactaaa ggatacacag gataggataa 720
 agccaagtcn catcaacatt aaaaaatact aaananaaa acacaaaaaa aaaaaanccc 780
 gggggggggc cggaacccat tc 802

<210> 111
 <211> 470
 <212> DNA
 <213> Homo sapiens

<400> 111
 ggcacgaggg aaatcttgca cataggcagg taaataatta taaatggtga agtggattat 60
 tctgagctgc ttaattttta agggaaagag aacttttaaac tcttcaacct tttatgctgc 120
 taataagagt tccacaatca atagaaatct atcttggcag gcacttcctt ttaccacta 180
 gaattttttt ccttgggagt tcacgatccc cagaaactgt gatatgagcc attcaatatt 240
 gatgtactaa aacagtgtc tgcttaaata cagtttttca acatacagtc ttggaagaaa 300
 caaatccaa aataaattcc aatagtccag taacaggaat aaagacact attgcaatt 360
 aaatcttaca gacttatatg aaagctgttg ttaacagctg ggtactagtt atttgaaaag 420
 tttctcgtgc cgaattcgat atcaagctta tcgataccgt cgacctcgta 470

<210> 112
 <211> 1020
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> n equals a,t,g, or c

<400> 112
 cgncacgagg tgaagttcaa cccaatgcaa ctttccttca gtctttccgt gaaagcgct 60
 gtgaaaaatg aggtcatatt tccctttctc agtctgcccc ttcccgtttt gctctccggt 120
 tttcttcttt gtcttcacag atgtttacct atgttttttc tttgttttg ctgttggag 180
 acatctaagt gatccttttc ccatttcttt tttcactcat aaatgtcctg atgttttagca 240
 aaaggcagtt ctcttttgcta cttagagcttg taaactggtg ttaaagtgtg aaccaaagg 300
 aaagtccttg cgaagttggt taccatttca gatacaagaa ccgtttatct tcccacgctg 360
 acgaattttg cgagtggagt gattattttt ccttgtgttt gtaatttatt taagtaaatt 420
 ccttggtttg ttttcttttc agtacaccag gggatatat tttcaatatg acatgtacct 480
 ttggttcagg gctaagttag agtctgaaaa atgaagcctg taggattcat ggcaagtgat 540
 taattgtgat tcattctact gattgtaggg caagaagagt gactaactc aagacacaag 600
 gcaccttcag cgaggacagc aaaggcgctc tacagagacc agccatatgg cagatactga 660

ttgtactgtc	tgatgttg	aaatagccaa	tctccaccag	tcctgtatac	tgttcaaagt	720
aatttttttc	tatgaacaat	cccttttttaa	ataaatcaaa	atgcttaaaa	tctgaatgga	780
tggaacttaa	aactactttg	ttgaaacatc	aacctgggca	gaaaaaaaaa	aaaaaaagac	840
atgtaaaatt	ttgttatttc	cagtctgtat	atgaaaaaat	agggtcatcaa	aaggaaaaaa	900
aataactttg	attaactagt	gttaaacaaa	aaataggttt	actaaatctc	gtgccgaatt	960
cgatatcaag	cttatcgata	ccgtcgacct	cgtagggg	gcccgtaacc	aatcgccctgt	1020

<210> 113
 <211> 1881
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (70)..(70)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (126)..(126)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1860)..(1860)
 <223> n equals a,t,g, or c

<400> 113	
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actaaacttn	cttcagcctt
acagcncctgc	tagtagagcg
gtcaagtctg	tctaactctaa
tcagtctcac	ccttctcttc
acttaaagga	tgcgagcaaa
aactgcaaga	tatccagtct
ccagagtgtt	tcggccgacg
gtacagatgt	gtatcccacc
agctgctggg	atgtatctct
aatattggag	gtttcatgtt
atactttggg	aatttgtggc
caatggaata	gtgcacactc
atgccagca	tcaagggata
tatctacata	ggaaataaaa
attaaacttt	ggatcaaaga
cctcccaagt	ccaggaccca
gctaaaatta	gctacaattc
tgacaagctt	tccagaagca
ttttcattat	tcttgagaaa
agaatttata	tcataactag
ttttcttaat	tattaagaag
cagtgggtctg	gatacgaagt
tgaccacaga	cctctaacct
gggttggtat	ttcatttttt
tgttcagcaa	gagaactgct
tattgtgttc	cagaacatta
tgttgtctct	tatgaaatga
ctgcttacta	taggggttaac
	atcccttttg
	ccattttttt
	ccagttcact
	gagcatgctt
	ttaaccttmg
	cccctttaaa
	ctcacaatgc
	actgtcttct
	caaagcaaa
	gaagaaag
	ttcttacaca
	taaatgtttg
	catcagacag
	acacttcact
	gtctgtctca
	aaatcctttt
	ctttagaaca
	aaaggcaaca
	ctttgacaaa
	ggcaattcta
	ccaagacact
	ccttaataag
	gactgtgac
	ttcacatata
	tgccatctgt
	atctctgaca
	gtgacatttt
	cttatgattg
	atcttctcaa
	ctagcttttc
	gagccaatca
	gaaatatatt
	tttcaataat
	aatctggatg
	ctggactcac
	tttaacaaaat
	actgatccaa
	gtatttgggt
	ttaaatttcta
	gaattttggt
	ccataaatgt
	caccatttcta
	aaccattttt
	tctaaaacct
	aattgcaaat
	tacttaagta
	atttaaatta
	cctggaataa
	taaagtttga
	ccattttcaa
	aagaaacttg
	ccttttacat
	gttagtgatg
	gtaaactttg
	atcagtgcct
	ttcaaagggg
	agttaacttg
	tggtttggct

gttycctgga	ttttataaca	tacatgtgca	gaaatgtatt	caaatgaaag	gaagcatacc	1800
tttatcaaga	tgctattaaa	attgaacatc	aagtataaaa	aaaaaaaaaa	aaaaaaattn	1860
ctgcggccga	caagggaatt	c				1881

<210> 114

<211> 541

<212> DNA

<213> Homo sapiens

<400> 114

tgacagtaac	cgttccggaa	ttccccgggt	cgacccaagg	gtccccgtga	tgccctgtca	60
tggtcttctt	gcacagggcc	tcagcctggc	acctctgcca	ccgtgggctc	tctgttgtgt	120
gggggtgtcc	cgtgcattgc	aggacatcca	gcagcatccc	cggcctcctg	ctccgtgcc	180
gtagcgccgc	accccgccgt	cgtgacagcc	caggtctccc	ggtgtgcaga	atgcccgctg	240
gtcatgctga	gaggtacagg	ggtgctgccc	ccagggtttg	aacgctgtct	aactcccacc	300
tctggtgtgt	ctctcccctg	tgtgtagcgt	ggagtcactg	gatgagtgtg	gtgacctccc	360
tgtgtccagc	tgccctgggc	tgcaagcagg	tccctcctgc	agccctccag	gccaccctta	420
agcagagctg	gaccagcctg	gccaacatgg	tgaaaaccca	tctctactaa	aaatacaaaa	480
attagccaag	cgtggtggaa	ctctgtctca	aaaaaaaaaa	aaaaaaaaaa	aaagggcggc	540
c						541

<210> 115

<211> 762

<212> DNA

<213> Homo sapiens

<400> 115

ggcagcagtg	cctctacgtc	atgtcttctc	caatgtcatg	attcacgtcg	tgacgtactg	60
ttttggactt	gtctattatg	tccttgttgg	cctaactgtg	ctgagccaag	tgccaatgga	120
tggcaggaat	gcctacataa	cagggaaaaa	tctattgatg	caagcacggg	ggttccatat	180
tcttgggatg	atgatgttca	tctggtcatc	tgcccacag	tataagtgcc	catgtttattc	240
gcggaatct	caggaaaaat	aaagcaggag	tggtcattca	ctgtaaccac	aggatcccat	300
ttggagactg	gtttgaatat	gtttcttccc	ctaactactt	agcagagctg	atgatctacg	360
tttccatggc	cgtcaccttt	gggttccaca	acttaacttg	gtggctagtg	gtgacaaatg	420
tcttctttta	tcaggccctg	tctgcctttc	tcagccacca	attctacaaa	agcaaatttg	480
tctcttacc	gaagcatagg	aaagctttcc	taccattttt	gttttaagtt	aacctcagtc	540
atgaagaatg	caaaccagg	gatggtttca	atgcctaagg	acagtgaagt	ctggagccca	600
aagtacagtt	tcagcaaaagc	tgtttgaaac	tctccattcc	atttctatac	cccacaagtt	660
ttcactgaat	gagcatggca	gtgccactca	agaaaatgaa	tctccaaagt	atcttcaaag	720
aataaatact	aatggcagaa	aaaaaaaaaa	aaaaaaaaaa	aa		762

<210> 116

<211> 1103

<212> DNA

<213> Homo sapiens

<400> 116

gtcttaaatga	gcaacagcaa	cagcagtcct	cagttaagaa	agagagaatt	aaatacagca	60
gagatttctt	gttgaagctc	tcaagtgttt	ccatctgcag	aaaaaaacca	gactttctgc	120
ctgatcatcc	cattgtactg	caaaaaccag	aaaacaacca	aagttttaag	tagcatttta	180
agaacagatg	aatttaagtt	tggacatctg	caaagtgggt	ggatctagca	acaataactg	240
taatggactg	tgacaattca	atttattctt	aattttgatg	gttggctatt	tgacttctct	300
aaaaatgaga	aagagctatt	ttaaaatata	aagaattttc	taatcagttt	cagctttgca	360
ggaggtttcc	tgcataaatt	gggaagtaac	actggaaagt	aggaatttgg	ttagtgaagt	420
gggaagactg	tatatattata	atttgcatac	tacttgcaat	tttttgtttt	tcatacttgc	480
taataatgga	atggaaatgt	aagctgtaaa	gactctcaaa	tataaaatat	ttgctacagt	540
gtatatatgg	tacataaattg	cttgttgctt	ttaaagttcc	ttctgttgtt	ctgcttccca	600

ctgatttcat	accagctcat	gaatggatca	ttacagtctc	tccagaggct	tagaatgatt	660
cagaatgttc	aatgcatagt	tctcaataaa	caggaggcag	aatttttaat	gggtatttct	720
tttcagatat	atgattggtc	tctaggtttt	tgataataat	atggtcttaa	attcataatt	780
actagcagag	attgataatt	tgaaacaat	ggtagtgaat	gaaactgaag	ttgaaaacg	840
gctgctactt	atgtcactaa	tcagaccata	tgaatagcag	aagttgagca	atttcaaagt	900
aaaactgata	tttttatttc	caaaggaatt	tagacatttg	aaaataattg	acatacat	960
agttttaatt	cgataatttc	ttatatatgg	atgaacaatt	tttgggttta	agctttta	1020
tcctagaaat	tttatacat	aaatctcctg	caatttgtca	ctctggatgt	tactgtttaa	1080
aaaaaaaaa	aaaaaactcg	tag				1103

<210> 117
 <211> 1175
 <212> DNA
 <213> Homo sapiens

<400> 117						
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cctggctgca	ggatgaagct	ggccagtggc	ttcttggttt	tgtggctcag	ccttgggggt	180
ggcctggctc	agagcgacac	gagccctgac	acggaggagt	cctattcaga	ctggggcctt	240
cggcacctcc	ggggaagctt	tgaatccgtc	aatagctact	tcgattcttt	tctggagctg	300
ctgggaggga	agaatggagt	ctgtcagtac	aggtgccgat	atggaaaggc	accaatgccc	360
agacctggct	acaagcccca	agagcccaat	ggctgcggct	cctatttctt	gggtctcaag	420
gtaccagaaa	gtatggactt	gggcattcca	gcaatgacaa	agtgtctgca	ccagctggat	480
gtctgttatg	acacttgctg	tgccaacaaa	tatcgctgtg	atgcaaaatt	ccgatggtgt	540
ctccactcga	tctgctctga	ccttaagcgg	agtctgggct	ttgtctccaa	agtggaagcc	600
tgtgattccc	tggttgacac	tgtgttcaac	accgtgtgga	ccttgggctg	ccgccccttt	660
atgaatagtc	agcgggcagc	ttgcatctgt	gcagaggagg	agaaggaaga	gttatgagga	720
agaagtgatt	ccttctctgt	tttgagtgc	accacagctg	tcagccttca	agatgtcaag	780
tcttcgagtc	agcgtgactc	attcgttctt	ccaacagttt	ggacaccaca	aagcaggaga	840
aagggaacat	ttttctacag	ctggaaagtg	agtcctatcc	ttgaggaaa	tttgaaaaaa	900
gacatggagt	ggtttgaaag	ctactcttca	tttaagactg	ctctcccca	ccaagacaca	960
tttgccctgga	aattcagttc	ttagcttaaa	gactaaaatg	caagcaaacc	ctgcaattcc	1020
tggaacctgat	agttatattc	atgagtga	ttgtggggag	tccagccatt	tggaaggcaa	1080
tgactttctg	ctggcccatg	tttcagttgc	cagtaagctt	ctcacattta	ataaagtgt	1140
cttttttagaa	catttgga	aaaaaaaaa	aaaaa			1175

<210> 118
 <211> 572
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (106)..(106)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (110)..(110)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (422)..(422)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (427)..(427)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (548)..(548)
 <223> n equals a,t,g, or c

<400> 118
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 tccttgcagc cttccatctg tgctacctcc caggaagccg aagcgncagn agtccctttc 120
 ggatggcact gggagcagga aaatgaggtg attatgggct gctgctccaa gaagtattgg 180
 cagctgtttg tgggggcggc tccctggggt gtcacctctt kcttgctctt gtggatggga 240
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 tctagggcca attttaaatca gtttcttgtg cttctcatgc caaaagagat gattgcctc 360
 actatagttc atcctatagt gcggcgggct tgactcgcta ctgccctcta atgttctggg 420
 anagaanctg ttgggtcttt cctacctaat ctggtagaaa tgtgagaaca gaggctaatt 480
 tggggaaata aatctctcaa tttttttgag ttgctttgtg tgtgtgcgcg cgcgcatgtg 540
 tgtgtgtnag gggcagggtc tctaagaaag aa 572

<210> 119
 <211> 1633
 <212> DNA
 <213> Homo sapiens

<400> 119
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 cagggagaag gagggaggag ttaccccccac gatgacctcc aacttccctt tctgcacctt 180
 catcctgggg atagcacagg ctacggcctg ccctggttgc cctggcgatt ggcctggcct 240
 gggctcaggg gtgggggagg ggctgcacca cattaggacc tgccgtactc caatcccattg 300
 cagtcctect gctcctgctg ctgcgtgcct gggctctggt catgccaggc ttccttgtgt 360
 cctgcgtctg tggccggttc ctgccaaact gtctagtcct ttcaggcttg aggccctgca 420
 ttgctctttc tggctccttc cctccttcc cgctcccat ctageccttt ttgggttccg 480
 ggatctgtcg acagactttc ttcttgctgc ctgcctgctt acatttcaag agaccctct 540
 ggaactgccc atggctgtgg tccacctgct ggtagcaacg ccctgttacc aaatgctaga 600
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 tccacacctt tgtacactgc attctgcctg tctactctgga cagctgcca gcagctgcag 720
 ctgaggccgt cctgccagca cctaccgcag ccccatgggt ggtcctgtcc agttcctggc 780
 gctcccagcc tgcctcatct gctgtactta cagagccaca tctggttgaa tacagagctg 840
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 cctcctccgt gacctctggg gaaggcccag caacatcctc tattgcgtcc aatgacttct 1260
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 cagtggtaac attgttaaac aaaacaggaa aatgggactt gtgtgtatat atgattaaat 1560
 tattaattga tggatctacc ttcttagctc gtgccgaatt cgatatcaag cttatcgata 1620
 ccgtcgacct cga 1633

<210> 120
 <211> 1026
 <212> DNA
 <213> Homo sapiens

<400> 120
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 tgtccatctt tgctgctcca tttgcactgc ctcccaaagg tcactgtggc tccttctctg 120
 acttccacag tcaagttaca cttcataaaa attctaagct ctttttcaga agccacaaat 180
 ctatccttct ttaaagtctt caaactttga ttgtgtaaat aaatactcag aaacaagatt 240
 tctaaaaaac aaacactatt ggccatcgta tgttcaaagg agataacaaa tgtttaacct 300
 tataatgtgt aggccttcta aacttaattt caaaaaaaga ctaaataaac agtgtcaata 360
 tgtctataaa ctcaaacga aaattttcag atcatccaat tgtgtattca ttggccggaa 420
 acaatcatgt aaaaaccaca gccctggagc tgggtagcat agaaacaaga agattcagca 480
 tttcatgggt ggtgactcaa atctctaaag ggktgtcagg ttaaaaaaaaa aaaargaaaa 540
 gaaaagaata gaaatttgac ctgatctata aaaatgaaag tcgctgggca aagttttggc 600
 ttttctactc tgacaaagat gagctctctc ataggtagac caaggcacac gagtgtatgac 660
 tttcgtggcc ccaaaattct tcaagaaaat agtagattga ggaagcgatc tgcgcattga 720
 tagaggtgct gtttgaactg gatgacattt aagcttcctt ctttctccaa gattctgtga 780
 ggccatgaag catgctattt catccccact ccaattgctg tctccctggc ctgggtgccct 840
 taccacctca atcttgggtc actgaattct tttgcaagaa atcagtcctg cctaccacct 900
 gcaacttcat cttcctaaaa tgtcactttc cttaaggcct gctctgttca aaggccagtt 960
 cccagccaca ccaatgtaaa ctctgtgccga attcgatatc aagcttatcg ataccgtcga 1020
 cctcga 1026

<210> 121
 <211> 1384
 <212> DNA
 <213> Homo sapiens

<400> 121
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 ctttctcgtt ttaaaaaatt attactattg tccatacatg ttactctttt catctagatt 120
 tatcatgttt ctttggcctc cagtactctg tgtttgccta agctttatta gagacaggtc 180
 atttctacct atgtgtcatt ttatctatgt cttgatctta tgaattcaa ttgctcttta 240
 agattatggt ctcttctcat gtttggttta tccattatcc aaattttcca tttctttaac 300
 ctgttatccc ttgactcttt acagttctac ctttttattc acttagtctt ttacctttt 360
 tttattcgtt caccctttt tgttgtttca ggtactcctt acttatctcc ttagcctttt 420
 cttcttcac tttttctta cttttctcct acttctcatt ttacataata cttacttttt 480
 gcttcagtct tcaaccattg tcaatcttgt ttttccttat attccatttt actttctgaa 540
 ctactcttta atctcctgtt caacactacc tttccttctt ttttatccc tcttattttac 600
 acggtgatta caacagtttg gtatagtctg atttatctga ttgtaaaatt gatgagtttg 660
 atgtaccaa aatataagga agctaaattc aaagaaggta aaagatttgc ttgtgtcacc 720
 tagctgggta attttggcat atgcattgtt tctctacata gtctatgtagtcaaacaggt 780
 ttcatattga aatcattccc cataagaagg gtttcaattt gatttgaaca ggcagagatg 840
 gaaaaaattt cctctctgat aactactgct actgttgat accagtagaa atataacagc 900
 agcacttagg ttagaagaag ctcatagct attcagaata aatttcattt ttcttaattt 960
 ttggtaatca tatctcagcc tgttgaattt aacttaaaact ctgaaagaat tttggttggc 1020
 atttaatttt taggtttcct taatgatagc gacctataaa tttgttttaa aaaatttgtc 1080
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 aaaa 1384

<210> 122

<211> 941
 <212> DNA
 <213> Homo sapiens

<400> 122
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 <211> 1715
 <212> DNA
 <213> Homo sapiens

<400> 123
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 ggtgtcacc agccagcgag agctcttccc camctcact gctgacatgc gccgcttccg 360
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 <211> 1437
 <212> DNA
 <213> Homo sapiens

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<210> 125
 <211> 1816
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (504)..(504)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1405)..(1405)
 <223> n equals a,t,g, or c

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 <211> 776
 <212> DNA
 <213> Homo sapiens

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 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 127						
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cgaagttggc	attttgtaag	tgttcgaata	agcaccatgc	cgtgggataa	gaaataaaaag	360
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<210> 128
 <211> 3102
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3096)..(3096)
 <223> n equals a,t,g, or c

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 <211> 1155
 <212> DNA
 <213> Homo sapiens

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atgtgtgtat	atacacacat	atatgtacat	atatttaata	catttgtgta	tgtgtgtgta	180
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 <212> DNA
 <213> Homo sapiens

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accaggtcaa	atcagcaaaag	gttggggcgaa	accagaaaag	ctatgctaga	tcccccaag	1020

cccagtcgag	gtccctggcg	acagcccgaa	cggaggcacc	cgaagggagg	ggagtgccac	1080
gcccctaaag	gtacccgtga	cacccaggaa	ctgccacctc	ctgagggggc	cctcaaggag	1140
cccatggacc	taaagccaga	accccatagc	caaggagttg	aaggcccca	caagagaagg	1200
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gctctaaagg	ccggacaccc	ggttcttcct	accctcgctt	gcctcggggc	cagggagcat	1320
accggcctgg	tactcggagg	gagtcacctg	gcctggaatc	taaggatggt	tcctagcagg	1380
acttggtggg	gggaacaggg	aattggggat	gggagggagg	caataaagat	atttggcctt	1440
caaaaaaaaa	aaaaaaaaa					1459

<210> 131
 <211> 870
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (743)..(743)
 <223> n equals a,t,g, or c

<400> 131						
ggcacgagca	gatattaaat	ctcacagaa	ggtgttcctt	attaatcttt	acaaaattgt	60
catttccccg	gtgaagccaa	tttacattaa	aaataatggt	cagaaaaatgc	tgctgcctgc	120
tttctctcct	cttttaccca	ccccttggtt	tcccagcaat	cttcgccctg	tatgtttatg	180
tggacaattt	ctattgtaac	attctccatt	ccattaaactc	tgctctctcc	tcctgagggg	240
gaaaataaaa	ccctaaatgg	ctctaatagt	tatgtatttt	attttgtctc	agaggtttcc	300
aaacttctgc	tttttagcttc	cttttcaactg	ggacaaaatgg	atgtaagtta	ttttccagtt	360
tcctgaaaaa	taatcagggg	ctattttctt	catctatctc	aggtgcttca	tgagtttcct	420
aagatattaa	ttacggtttc	catcacattca	gaatcaaggg	actcacggat	atgggtactgt	480
gttcactgct	acacagaggt	tttctagaaa	aaaaaattct	ttatttttat	cttctatttg	540
tatccaaacg	atggtaaaac	aaaattcctc	tttagctagg	tactgggatt	tttcttttag	600
gaaatactaa	tagagttaca	aagggttagct	tataggtaga	caaaagactg	gcggcaaac	660
agagcagtgg	gtgaaatggg	tccctgggtg	acatgtcaga	tctttgtacg	taattaaata	720
tattgtggca	ggattaatat	canaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	780
aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	840
aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaactc				870

<210> 132
 <211> 1835
 <212> DNA
 <213> Homo sapiens

<400> 132						
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cagcctcggc	acctgcaggt	ccgtgcgtcc	cgcggctggc	gcccctgact	ctgcccgcc	120
caggaggggc	catgatttcc	ctcccggggc	ccctggtgac	caacttgctg	cggtttttgt	180
tcctggggct	gagtgccttc	gcgccccctc	cgcggggcca	gctgcaactg	cacttgcccg	240
ccaaccgggt	gcaggcgggtg	gagggagggg	aagtgggtgt	tccagcgtgg	tacaccttgc	300
acggggaggt	gtcttcaccc	cagccatggg	aggtgccctt	tgtgatgtgg	ttcttcaaac	360
agaaagaaaa	ggaggatcag	gtgttgctct	acatcaatgg	ggtcacaaca	agcaaacctg	420
gagtatcctt	ggtctactcc	atgccctccc	ggaacctgtc	cctgcggctg	gagggctctc	480
aggagaaaga	ctctggcccc	tacagctgct	ccgtgaatgt	gcaagacaa	caaggcaaat	540
ctaggggcc	cagcatcaaa	accttagaac	tcaatgtact	ggttcctcca	gtcctccat	600
cctgccgtct	ccagggtgtg	ccccatgtgg	gggcaaacgt	gacctgagc	tgccagtctc	660
caaggagtaa	gcccgcgtgtc	caataaccagt	gggatcggca	gcttccatcc	ttccagactt	720
tctttgcacc	agcattagat	gtcatccgtg	ggtctttaag	cctcaccaac	ctttcgtctt	780
ccatggctgg	agtctatgtc	tgcaaggccc	acaatgaggt	gggcactgcc	caatgtaatg	840
tgacgctgga	agtgagcaca	gggcctggag	ctgcagtggg	tgctggagct	gttgtgggta	900

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tctccagcca	ggccctgccc	tcaccaagac	tgcccacgac	agatggggcc	caccctcaac	1200
caatatcccc	catccctggt	gggggtttctt	cctctggctt	gagccgcatg	ggtgctgtgc	1260
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tggctaaagg	atttggggtc	tctccttctt	ataaggca	cctctagcac	agaggcctga	1380
gtcatgggaa	agagtcacac	tcttgaccct	tagtactctg	ccccacctc	tctttactgt	1440
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tctggaattg	ggaggagcct	ccacccaccc	ctgactcctc	cttatgaagc	cagctgctga	1560
aattagctac	tcaccaagag	tgaggggcag	agacttccag	tactgagtc	tcccaggccc	1620
ccttgatctg	tacccacccc	ctatctaaca	ccacccttgg	ctcccactcc	agctccctgt	1680
attgatataa	cctgtcaggc	tggcttgggt	aggttttact	ggggcagagg	atagggaatc	1740
tcttattaaa	actaacatga	aatatgtgtt	gttttcattt	gcaaatttaa	ataaagatac	1800
ataatgtttg	tatgaaaaaa	aaaaaaaaaa	aaaaa			1835

<210> 133
 <211> 407
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (352)..(352)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (376)..(376)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (378)..(378)
 <223> n equals a,t,g, or c

<400> 133						
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agagataagt	awggctkggc	atkgattctt	ytgkgtwac	ctcaagctgt	tttctagtcc	180
ccaagaacag	caytytcagt	gggtgtggaa	gtgggcggga	catgaagcaa	tggttttaca	240
ttgcattgcc	tggctacags	ttggcatttc	tttctttttt	ctttttcttt	gcgattgc	300
cattggtgcc	actaattttg	cttcccctyt	cttttataaa	cttgtttcct	cnggagttgc	360
ctaagagtcc	tgcattanaa	cctaattggg	aatgaagcag	tgtgttc		407

<210> 134
 <211> 711
 <212> DNA
 <213> Homo sapiens

<400> 134						
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cccaggaggt	aggggctacc	ttgaggggat	gatagacctc	ccccactccc	agtgkkactc	180
tggaaatatg	aaggaaactag	ggagtgggaag	agatttcaga	gctggggaga	ggaatcctc	240
ccttcaaaagc	cagcaactgc	ctttggggaa	tgtcgggggg	tctctccttt	ctcctgcttg	300

tgtkargtgg	tacacagtcc	ccccttcacc	tggcggaag	ctgtcccga	cagactcatc	360
tcagctttcc	cttggggcag	gatcgggg	agcagctcca	gcagaaacag	caggatctgg	420
agcaggaagg	cctcgaggcc	acacagggg	tgttgccgg	cgagtggg	ccacccctct	480
ggragctggg	cagcctcttc	caggccttcg	tgaagaggga	gagccaggct	tatgcgtaag	540
cttcatagct	tctgctggcc	tggggtggac	ccaggacccc	tggggcctgg	gtgccctgag	600
tgggtgtaaa	gtggagcaat	cccttcacgc	tccttggcca	tgttctgag	ggccagcttg	660
gcctttgcct	taataaatgt	gctttatatt	caaaaaaaaa	aaaaaaaaaac	t	711

<210> 135
 <211> 890
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (818)..(819)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (829)..(829)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (859)..(859)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (887)..(887)
 <223> n equals a,t,g, or c

<400>,135						
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ataggaactg	tctcaaaagg	atggtgggta	ttttaaatat	aaatagctaa	tgggggtggt	180
aggcctataa	aattaaatgc	cttgtataaa	atccaaaatg	aatgcaaaat	tgttttctact	240
tgtattgact	ttatgttgta	tgattccaat	ctctgttctg	tttggcactt	gtatttaatt	300
cttcaccttt	gtaagacatt	tgtatatatt	ggatgtgttc	attcaagcta	tttaatatct	360
ggcactgtta	atacacagta	ctttattgta	cagactgttt	tactgtttta	attgtagttc	420
tgtgtacttt	ttttggatgg	ggctggcatg	tttctttgt	ttcctggcaa	tacgacgtgg	480
gaatttcaat	gcgttttgtt	gtagatgcta	acgtgtcaga	atcctttaca	ttcaactttt	540
ctaagaaaag	catttttcagt	cttgtagtgt	gtgcttacag	taactaattt	tgttgaaaat	600
ggtttcaagt	tattcaaatt	tgtacaggac	tgtaaagatt	tgttgacagc	aaaatgttga	660
agaaaaaagc	ttatagaata	aaagctataa	agtatatatt	aggatctgca	aacaatgaag	720
aattatgtaa	tatatgttac	aaatgtaagc	aaaggctctg	aaataaaaatg	ccatagtttg	780
tgaaaaaaaaa	aaaaaaaaaa	actcgagggg	gggcccgnna	ccaatcgnc	caaaagtgag	840
tcgtattaca	attcactgng	ccgtcggtta	caacgtcgtg	actgggnaaa		890

<210> 136
 <211> 1161
 <212> DNA
 <213> Homo sapiens

<400> 136						
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aactggtttg	aacccagtcc	actggactcg	aaagctcatg	ctcagaagcc	ccagggtccc	120
ctctaacttt	cttggttgct	gcaactcaga	gagcgctgga	atggaccag	ggcatgctcc	180
tcatctcagc	ggttcagggt	ttcattcttc	tatctccatc	cttctattta	attctgtact	240
tactaagacc	tgggggtaca	gggaggggct	tggagcctat	ttgccagct	gctgaatggg	300
gaggttggag	agatggatac	ttatggtcc	agtaccagga	gccaactgtt	tcccttgaca	360
actggggaaa	ctgaggccca	cagagccaag	gccacttgcc	cgtgggttacc	taaagatgtt	420
aacgagaaat	ccgggtctgg	aactcagatc	cctttgtatc	ctgtttcggg	gttgggtgtag	480
tttgttgctt	tccctaagat	gagcccagat	agggaaactg	aagtgcctgg	gstcctgtt	540
gggtcttctg	cggggagaga	atggcgattc	aactcccggtg	tactgttgaa	cttgacacaa	600
acacgctcac	atcccaggct	gcatacgtgt	tttgcttttag	aaatgacatg	aagccttttg	660
actatTTTTA	agagaaaggc	aatggctgtg	atatttcccc	tgcacctccc	tctcggggcc	720
acttggttaa	atgtcaggaa	agggagagta	tttcttggtc	aggaacattc	agagcttgct	780
gggagctgaa	gttttgtttt	ccattaagta	ggtattcggg	gagtctattt	ccctctgcct	840
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cagccgagat	gcccacgtat	cgcgtgcccg	ctctaggagt	ggcgggggtg	tatttttag	960
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ttggcccatg	tggccttcag	tttggaagca	gctctctgtg	ctgtgatttc	ccagttgcat	1080
aaataaggaa	gtcaagggaa	tctcaatagc	cctccaaata	ataataacga	aaaaaaaaaa	1140
aaaaaaactc	gacggcacgt	a				1161

<210> 137
 <211> 2152
 <212> DNA
 <213> Homo sapiens

<400> 137						
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acaacgtggg	tcagggcaca	gagagatatt	taatgtcacc	ctcttggggct	tttcatggga	120
ctccctctgc	cacatttttt	ggaggttggg	aaagttgcta	gaggcttcag	aactccagcc	180
taatggatcc	caaactcggg	agaatggctg	cgtccctgct	ggctgtgctg	ctgctgtctg	240
tgctggagcg	cggcatgttc	tcctcaccct	ccccgccccc	ggcgctgtta	gagaaagtct	300
tccagtacat	tgaactccat	caggatgaat	ttgtgcagac	gctgaaggag	tgggtggcca	360
tcgagagcga	ctctgtccag	cctgtgcctc	gcttcagaca	agagctcttc	agaatgatgg	420
ccgtggctgc	ggacacgctg	cagcgcctgg	gggcccgtgt	ggcctcgggtg	gacatgggtc	480
ctcagcagct	gcccgatggt	cagagtcttc	caatacctcc	cgtcacctg	gccgaactgg	540
ggagcgatcc	cacgaaaggc	accgtgtgct	tctacggcca	cttgacgtg	cagcctgctg	600
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atggacagag	agcgaccgac	aacaaaggcc	ctgtcttggt	ttggatcaat	gctgtgagcg	720
ccttcagagc	cctggagcaa	gatcttctct	tgaatatcaa	attcatcatt	gaggggatgg	780
aagaggctgg	ctctgttgcc	ctggagggaac	ttgtggaaaa	agaaaaggac	cgattcttct	840
ctggtgtgga	ctacattgta	atttcagata	acctgtggat	cagccaaagg	aagccagcaa	900
tcacttatgg	aaccgggggg	aacagctact	tcatgggtgg	aggtgaaatgc	agagaccagg	960
attttcactc	aggaaccttt	ggtggcatcc	ttcatgaacc	aatggctgat	ctgggtgctc	1020
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tggttcctct	tacagaagag	gaaataaata	catacaaagc	catccatcta	gacctagaag	1140
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tgcacctctg	gaggtaccca	tctctttcta	ttcatgggat	cgagggcgcg	ttttagtgagc	1260
ctggaactaa	aacagtcata	cctggccgag	ttataggaaa	attttcaatc	cgtctagtcc	1320
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ccaaaagaaa	tagttccaac	aagatgggtt	tttccatgac	tctaggacta	caccctggga	1440
ttgcaaatat	tgatgacacc	cagtatctcg	cagcaaaaag	agcgatcaga	acagtgtttg	1500
gaacagaacc	agatatgata	cgggatggat	ccaccattcc	aattgccaaa	atgttccagg	1560
agatcgtcca	caagagcgtg	gtgctaattc	cgctggggagc	tgttgatgat	ggagaacatt	1620
cgcagaatga	gaaaatcaac	aggtggaact	acatagaggg	aaccaaatta	tttgcctgct	1680
ttttctttaga	gatggcccag	ctccattaat	cacaagaacc	ttctagtctg	atctgatcca	1740
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ttgggtctag	tatagtacat	tttcccttcc	atttaaaatg	tcttgggata	tctggatcag	1860

taataaaata	tttcaaaggc	acagatgttg	gaaatggttt	aagggtcccc	actgcacacc	1920
ttcctcaagt	catagctgct	tgcagcaact	tgatttcccc	aagtcctgtg	caatagcccc	1980
aggattggat	tccttccaac	cttttagcat	atctccaacc	ttgcaatttg	attggcataa	2040
tcactccggt	ttgctttcta	ggtcctcaag	tgctcgtgac	acataatcat	tccatccaat	2100
gatcgccttt	gctttaccay	tctttccttt	tatcttatta	ataaaaaatgt	tg	2152

<210> 138
 <211> 1002
 <212> DNA
 <213> Homo sapiens

<400> 138						
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aggtggagtg	gccgtgacgt	ctgccgcgg	agggggctcc	ccgccggcca	cctcctgccc	240
cgtggcctgc	tcctgcagca	accaggccag	ccgggtgac	tgcacacgga	gagacctggc	300
cgaggtccca	gccagcatcc	cgggtcaaac	gcgggtacgt	aacctgcaag	agaacggcat	360
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caagaacctg	gtgcgcaaga	tcgaggtggg	cgcttcaac	gggctgcca	gcctcaacac	480
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caaccgcgtg	ccctcgtgc	ggcgctgga	cctgggcgag	ctcaagcggc	tggaatacat	660
ctcgaggcg	gccttcgagg	ggctggtcaa	cctgcgtac	ctcaacctgg	gcatgtgcaa	720
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gctggaggag	ctcaacctgt	cccacaacaa	cctgatgtcg	ctgccccacg	acctcttcac	960
gcccctgcac	cgctcagagg	gggggcccgg	tacccaattc	gc		1002

<210> 139
 <211> 1113
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (349)..(349)
 <223> n equals a,t,g, or c

<400> 139						
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ttttaacctc	ttccttgacg	ctagctgctt	gtgcaaatac	catcttgccc	gcctactctt	180
cttcacttgc	tgacagatgt	gtaggtgaga	aaagtctcat	agtcattggt	cctgaaagaa	240
gcttcagac	ccacttctag	ggccagtgc	atatgcagga	aategctgc	ttctgggcca	300
ggacagagct	ggtctttttt	ttagtggggg	atggcgggca	gtggggcang	ggacattcaa	360
aatttatatt	ccaacagaca	gatagcatca	gcaggtacaa	ctacaagggt	atctacatag	420
atcatacatt	cacaaggcat	tattagttca	acagtgagaa	agccactcgt	gggttttctg	480
taacaatatc	ccacttcata	gtgtaaacag	gtactatttt	gttcacttac	aattccggaa	540
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gaggggaaag	acttttctct	cagaagttag	aatcttctct	cctcctttct	tggttaactg	720
agagcagtgt	tttgtttgct	caatattaca	tgtacaaaag	gagattagaa	gaaaatgcat	780
cacaaaacca	tcttgaacgt	tcagctcttc	ctgccaatat	atcacaaact	ttaggtttta	840
gacggggcct	gggaatacgt	aagtgttttt	tctttttttt	ttttttaagt	gaaagcaagt	900
ttattacgaa	agcaaaggga	taaaagaatg	gctgctccat	aggcagagag	cagcccagta	960

atcttataaat	aggaaaatag	acactatggc	tacaaaaaat	aaaaaataaa	tgaggtagat	1020
aaaatttttca	cacccaggac	ttgcctgttc	caacttcata	gtcttcatga	aatattcatc	1080
aagaagacaa	aaaaaaaaa	aaaaaacctc	gta			1113

<210> 140
 <211> 1668
 <212> DNA
 <213> Homo sapiens

<400> 140						
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ttacaaycta	tacatttwaw	gttttttaac	cacttcaaag	taagtttcag	acaccaacac	120
attttttaaa	tgatccctac	cattttttta	atgatcccta	ccaaaatgga	aggctgggat	180
cccaagggtt	tgttccattt	ctcaattcta	gtctgtgaaa	ttgargtctg	atgaccactc	240
ttaagrgrgg	tgttcattag	ggkgcgggct	gggcattatg	agtgtgtttt	tcatgagkca	300
gtggaaggag	gggcttggtg	tgagcagtgc	atgagaaaaa	cggcttggct	ttgcttcttt	360
ttccagctct	gtggccttgg	tcaggttacg	tctcttcagt	atcgtaactg	taatgtggag	420
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gttcaaaaac	tttccagagt	aattaatatg	taaagccatg	taactaacia	aggatttgct	1560
ttagagataa	ttatttgtaa	tttttatagc	ttacttcaca	atgtgcccag	gtcagctgta	1620
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<210> 141
 <211> 1555
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1248)..(1248)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1389)..(1389)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1391)..(1391)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1393)..(1393)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1396)..(1396)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1551)..(1551)

<223> n equals a,t,g, or c

<400> 141

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gctcagcctc	tggatggagc	tctttccagc	agaagcccag	cggcaaaaat	ctcagaaaaa	180
tgaagaggga	aagcatggac	ccttaggaga	taatgaagag	aggaccagag	tatctactga	240
caaaagacag	gattactggg	agcagctaag	atgcctarat	gaaagggtttacc	catcactgc	300
tggttaggaa	atggattatg	agaactcgaa	cagagggaag	gtgaaatgca	accggaggaa	360
acactctgat	atgaggtttg	aggccttcaa	aattgctttg	cagcataagc	cacagtgagt	420
caggagtacc	agggagtggg	tagaatgttt	atttgtttaa	ctgagacttt	ttagtccatc	480
aattattttg	aagggtagaa	cactctgtgg	gctctctttc	tatttccttc	tgggtacaat	540
cacaaaaaaa	aaatctctcc	tagctgaaat	tacatgcagt	actagcaaag	ggctctcttg	600
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gcttttaaaaa	gttaatatgg	cccttcagac	accatcccaa	catcacataa	gaattttttc	960
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tgggtgtgtna	nangngncag	tttgtagagg	agacctctta	caaattgtgac	tttattcaaa	1440
aaattacaaa	aacattgccg	gatgctaaca	ctgactttta	ttatgaatgt	aaacaagaaa	1500
gaataaaaaga	atatgaaatg	ttaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	naaaa	1555

<210> 142

<211> 575

<212> DNA

<213> Homo sapiens

<400> 142

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gcaggatgaa	agctctctgt	ctcctcctcc	tccctgtcct	ggggctgttg	gtgtctagca	120
agaccctgtg	ctccatggaa	gaagccatca	atgagaggat	ccaggaggtc	gccggctccc	180
taatatttag	ggcaataagc	agcattggcc	tggagtgccca	gagcgtcacc	tccagggggg	240
acctggctac	ttgccccga	ggcttcgccg	tcaccggctg	cacttgtggc	tccgcctgtg	300
gctcgtggga	tgtgcgcgcc	gagaccacat	gtactgccca	gtgcgcgggc	atggactgga	360

ccggagcgcg	ctgctgtcgt	gtgcagccct	gaggtcgcgc	gcagcgcggtg	cacagcgcg	420
gcggaggcgg	ctccaggtcc	ggagggggtt	cggggggagct	ggaaataaac	ctggagatga	480
tgatgatgat	gatgatggaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	40
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaa			575

<210> 143
 <211> 1532
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1412)..(1412)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1433)..(1433)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1446)..(1446)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1505)..(1505)
 <223> n equals a,t,g, or c

<400> 143						
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gaaaaggccg	aggcatcagc	gtgtgaagac	cgcaaagacg	atcccagagta	cagttgtgaa	120
cagcattgct	gctaggctcc	tcctgcagat	catctgaaat	gaacctctct	tattgatttt	180
tattggccta	gagccaggag	tactgcattc	agttgacttt	cagggtaaaa	agaaaacagt	240
cctggttgtt	gtcatcataa	acatatggac	cagtgtgatg	gtgaaatgag	atgaggctcc	300
gcaatggaac	tgtagccact	gcttttagcat	ttatcacttc	cttccttact	ttgtcttggt	360
atactacatg	gcaaaatggg	aaaggtaagg	aaaatgactc	ggaaaatgtg	catgaaatgt	420
actagggttt	ttgcttggtt	aagggtgccta	aatgcttaggt	tcaaataccc	tggcaatctg	480
catgttacat	gctatctgct	ggcagtttct	ttctgatata	aaaatgaaac	agtatttctg	540
gacagaggac	acagaatttc	taattccagt	ggggcttggt	ttgctttcag	tttcttataa	600
ttgtacttgg	agaaacagat	actgatcagt	gttttatatt	ctaaaagaca	gccaaagtga	660
ataataaaga	ctttcgtttt	ggcattttgt	tctttttact	aaacataatt	aagtgtttta	720
taagcttcct	tgtaccgagt	gttgcataaa	acacttaaaa	ggacacaatt	agtgccctcg	780
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gattggaata	ttaaaacatt	ttttaaaaaat	taattatgkt	tagactgktg	aaccgkgtta	960
tataatttta	ggataawgga	ttwatttgct	tttttttttt	ttaagagaaa	ctacttgaag	1020
taaattccta	cccatacttc	ttacttgtct	cctttccttt	gattaatcta	aggaatgktg	1080
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caactgaaaa	gattgctttg	taaccttatt	tttttctgat	gtgtgtttac	atccatgtct	1260
atatatacat	attgcataatg	tatatatctg	tatgtgcatag	tatatgttaa	aaatctgata	1320
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cccggtagcc	aattcgccct	atagtgaagtc	gnattacaat	tcactggccg	cgntttacaa	1440
cgctcngact	gggaaaaccc	tggcgttacc	caacttaatc	gccttgacgc	acatccccct	1500
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<210> 144
 <211> 1559
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1445)..(1445)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1551)..(1551)
 <223> n equals a,t,g, or c

<400> 144
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 tacctacagc ggccggagct gcgggtgccc gtgcctgagg tcctactgca cagcgaaggg 120
 gctgccagca gcagcgtctg caagctggac ggactcatcc accgcttcacacgctcctt 180
 gcggacacca gcgactcccg ggcgttggag aaccgagggg cggatgccag catggcctgc 240
 cggaagctgg cggtggcgca cccgctgctg ctgctcaggc acctgcccac gatcgcggcg 300
 ctctgcacg gccgcaccca cctcaacttc caggagttcc ggcagcagaa ccacctgagc 360
 tgcttcctgc acgtgctggg cctgctggag ctgctgcagc cgcacgtggt ccgcagcgag 420
 caccaggggg cgctgtggga ctgccttctg tccttcacac gcctgctgct gaattacagg 480
 aagtcctccc gccatctggc tgcccttcac aacaagtttg tgcagttcat ccataagtac 540
 attacctaca atgccccagc agccatctcc tcctgcaga agcagccga cccgctccac 600
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 ctgcccagca gggacgacag gaccgaccga ggcctggacg aagagggcga ggaggagagc 720
 tcagccggct ccttgcccct ggtcagcgtc tccctgttca cccctctgac cgcggccgag 780
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 ctccggggccg gccgctggca tcaggggccc tcagcaagc cctcattcac cttctgggcc 1440
 acagncctgc gcggagcggc ggatcccccc gggcatggcc tgggctggtt ttgaatgaaa 1500
 cgacctgaac tgtcaaaaaa aaaaaaaaaa aaaccogrpg gggggcccgg nacccaatt 1559

<210> 145
 <211> 1021
 <212> DNA
 <213> Homo sapiens

<400> 145
 gtaattcctt aaacatacca tctgtcacag ttaattctaga tttgtaaata ggtagtaatt 60
 tatagaattt ttaaagcgta aaatccggta atattaaaag ataggtaaac ctaggcctgg 120
 aaagctgtta tttggctaaa attgcacagg aggccatgaa cagaggcaag tgccccagag 180
 actccacttt cattcctaac tgtttctcaa ttaatgctca tgattgagta ttctcagtcg 240
 aactcgtaga gtttgataag taaaagttac atgcccctgt tttcctagca tgatattcac 300
 tggttatcaa gacaagaggc agaccattca ttcatttctc aaacactgaa tgccattctg 360
 tgcctagtgc tatacaaggc atgggagatt cagtgtgaat aagtctttgc tctccaccta 420

acaagggaca	gttttaatta	tagattgtct	tcctattaag	tatgagtttt	agtaggcatt	480
aaaaatcgta	attagtttga	taatatgaga	cccaacccta	acttgccaga	agagtaatca	540
gttcatgaac	cattgatatt	tcctgtatat	ttcatgaatg	tgacttcagt	cattctagtg	600
ttaatactgt	ggaatgtcat	tgggtgtgca	acgtgggttc	acaaaaacac	ctttttatac	660
aaaagacaga	tgygtgaatt	aaagagatta	aaggatagag	tattctgttt	ctttgttttg	720
at ttggcttt	taggtattaa	aataaggccc	agatcactaa	aaattagtaa	cagagggaga	780
cctctaatag	at ttaaagtc	agttaattct	ctctgaaatt	tgatgttttc	ttctataag	840
aataactcta	aaataggcat	cttcccagga	ctttccattc	tcaggaaaag	acctagttac	900
gtataaaaaa	taacttctac	tgctttatgt	agtcatatag	gtctgcctaa	aataagaatt	960
tgtatttaat	aaataccaaa	at tttcaa	ggtaaaaaaa	aaaaaaaaaa	aaaggggggg	1020
c						1021

<210> 146
 <211> 1024
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (32)..(32)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (713)..(713)
 <223> n equals a,t,g, or c

<400> 146						
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cctgactggg	caacgtggg	ctcttcctgc	gctcggatcc	cagcatccgt	ggcgtgatgc	120
tggccggccg	cggtctgggc	cagggtctgg	cttactgcta	ccaatgccaa	agccaggtgc	180
cgccacgcag	cggacactgc	tctgcctgcc	gcgtctgcat	cctgcgtcgg	gaccaccact	240
gccgmctgct	gggcccgtgc	gtgggcttcg	gcaactaccg	gcccttctg	tgccctgctgc	300
ttcatgccgc	cggcgtcctg	ctccacgtct	ctgtgctgct	gggccctgca	ctgtcggccc	360
tgctgcgagc	ccacacgccc	ctccacatgg	ctgccctcct	cctgcttccc	tggtcatgt	420
tgctcacagg	cagagtgtct	ctggcacagt	ttgccttggc	cttcgtgacg	gacacgtgcg	480
tggcgggtgc	gctgctgtgc	ggggctkggc	tgctcttcca	tgggatgctg	ctgctgcggg	540
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acctagactc	agtaaggaag	tcgggttgg	ccttaacatc	tgcat tggac	aactccaccc	840
cttccttggc	cttgcccctg	ccgcctaca	ctcctacgtg	tccagggctt	gggccgtgac	900
ttaggcagag	gaggtgcag	gagggctctg	caggggctgc	tcaggccgcc	tagctgcccc	960
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cgct						1024

<210> 147
 <211> 1231
 <212> DNA
 <213> Homo sapiens

<400> 147
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 tgggggacaa attggggatg gccagagccc cgagtgtcgc cttggctcaa ctgtggttga 120
 tttgtctgtg cccggaaggt ttggcatcat tgcgccaggc tgtgccctgg aaagtactac 180
 agccatcctc caacagaagt acggactgct cccctcacat gcgtcctacc tgtgaaactc 240
 tgggaagcag gaaggcccaa gacctgggtg tggatactat gtgtctgtcc actgacgact 300
 gtcaaggcct catttgcaga ggccaccgga gctagggcac tagcctgact ttttaaggcag 360
 tgtgtctttc tgagcactgt agaccaagcc cttgggctg ctgggttagc cttgcacctg 420
 gggaaaggat gtattttatt gtattttcat atatcagcca aaagctgaat ggaaaagtta 480
 agaacattcc taggtggcct tattctaata agtttcttct gtctgttttg tttttcaatt 540
 gaaaagtaat taaataacag attagaatct agtgagagcc tcctctctgg tgggtggtgg 600
 cattaaggt caaaccagcc agaagtgtg gtgtgtttta aaaagtctca ggtggctgcg 660
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 gtaattgctc gcaggagag cagtcttttt ggtgtaatat tgggatgtct gcttagttgg 960
 caggggttca gtccaaatgg aagaatattg ggaaataaac ctccactatc ctttatagcc 1020
 agggactttt ttcctattta ttcataaaat aaattatagt taattatacc cataacacct 1080
 ttatttaaat ccagtgttct ccgcagcctt ttgtctattt atatgtgtac caagtgttaa 1140
 acataattat tattgggcat ttgaactttg tttttcttta aagaaatgct gctattaaac 1200
 atatttgtaa atggaaaaaa aaaaaa a 1231

<210> 148
 <211> 1223
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1204)..(1204)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1206)..(1206)
 <223> n equals a,t,g, or c

<400> 148
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 ggccgctcta gaactagtgg atccccggg ctgywkaat tcggcacgag ctgctgtctg 120
 tgcttcggga tcctgccctc cagaagtcct ccaaggcttg gtacttgctg cgtgtccagg 180
 tcctgcagct ggtggcagct taccttagcc tcccgtaaaa caacctctca cactccctgt 240
 gggagcagct ctgtgcccaa ggctggcaga cacctgagat agctctcata gactcccata 300
 agctcctccg aagcatcatc ctctgtctga tgggcagtga cattctctca actcagaaaag 360
 cagctgtgga gacatcgttt ttggactatg gtgaaaatct ggtacaaaa tggcaggttc 420
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cacctgtgac	tgctcgctct	gcgccagccc	tgctctcaca	gcagtctgtc	tgcgctgggt	960
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gcaggtcgtg	ctgaagggtc	gtcctgaagc	cgctgagcgc	ctcacccaag	ctctccaagc	1080
ttccctgaat	cataaaacac	ccccctcctt	ggttccaagc	ctcttggatg	agatttggct	1140
aagcatacac	actgttgac	tggagggcct	gaaccagcca	tcaaacgaga	gcctgcagaa	1200
ggtncncagt	aaggctgaag	ttt				1223

<210> 149
 <211> 1238
 <212> DNA
 <213> Homo sapiens

<400> 149						
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ctggatcaag	ccttctcagc	ggtgggtctg	gatgtgggta	aactaaggta	aaggggatga	120
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	gggcggcc			1238

<210> 150
 <211> 1189
 <212> DNA
 <213> Homo sapiens

<400> 150						
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<210> 151
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 151						
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gccagacata	tggcaataaa	tgtgccttct	gtaaggccat	agtgaaaagt	ggtggaaaaga	240
ttagcctaaa	gcctcctgga	aaatgctgag	ttaaagccaa	tgtttcttgg	tgacttgcca	300
gcttttgcag	ccttcttttc	tcacttctgc	ttatactttt	gctggtggat	tcctttaatt	360
cataaagaca	tacctactct	gcctgggtct	tgaggagttc	aatgtatgtc	tatttctctt	420
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aaaaaaaaaa	aaaaaa					496

<210> 152
 <211> 3153
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2584)..(2584)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2590)..(2590)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (3153)..(3153)
 <223> n equals a,t,g, or c

<400> 152						
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tagcatggtc	caactgcagg	gtgggagatt	cctgatggga	acaaattctc	cagacagcag	180
agatgggtgaa	gggcctgtgc	gggaggcgac	agtgaacccc	tttgccatcg	acatatttcc	240
tgtcaccaac	aaagatttca	gggattttgt	cagggagaaa	aagtatcgga	cagaagctga	300
gatgttttga	tggagctttg	tctttgagga	ctttgtctct	gatgagctga	gaaacaaagc	360
caccagcca	atgaagtctg	tactctgggt	gcttccagtg	gaaaaggcat	tttgagggca	420
gcctgcaggt	cctggctctg	gcaccgaga	gagactggag	caccagtggt	tacacgtgag	480

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ccgctgtgct	gcagacgcag	gccggccgcc	aggggagctg	taagcagccg	ggtggtgaca	960
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<210> 153
 <211> 686
 <212> DNA
 <213> Homo sapiens

<400> 153						
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gtgggactca	aggcttgacc	gactcctagt	ggacctgatg	tgaatttcct	gtaaacaaa	540
caccactttt	caatggtttg	ctaggagtat	ttctgtattg	aaagtttcta	attatgcttt	600
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aaaaaaaaaa	aaaaaaaaaa	aaaaaa				686

<210> 154
 <211> 2496
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2340)..(2340)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2373)..(2373)
 <223> n equals a,t,g, or c

<400> 154						
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gggtccctag	aggccggttc	ctggtctgtg	ctgctctcct	ggaagccatg	gtacaggcag	180
agctcagggc	gatccccagg	tgagggcagc	ggctctgcct	gggattccac	cgcagtacaa	240
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gtcgcagctg	ttcgtaaaagt	cgcccgacag	ctttttctcc	gtagtatgcg	agttgacaaa	420
acagccagag	aacagggctc	cccattacaa	tctttttgag	atcttttccc	ttgctaaccg	480
gatctgattt	gtgcgaaaac	atgccttgca	cttgtaacctg	gaggaactgg	agacagtggga	540
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tgtgggaatt	acagaaactg	gaggttggaa	tacacaccaa	ggcttggttt	attgctggaa	660
tctttttgct	gttgactatt	cctatatcac	tgtgggtgat	attgcaacac	ttagtgcatt	720
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gatcccgcga	cctcggcctt	ccaaagtgct	ggnaatacag	gcgtgagcca	ctgggccttg	2400
ccaagattgg	gcacttttta	acatcagaac	ttcctatcac	tgctgcattg	agttgctccg	2460
catttattag	aagcattatg	cctgtacgga	ttgggg			2496

<210> 155
 <211> 1001
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (919)..(919)
 <223> n equals a,t,g, or c

<400> 155						
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tggatatatta	caaatatgac	agtcagattc	ttttcatttg	gaaaaggtaa	aactccgaaa	180
cagttttttt	atttttaact	tttaatcctt	gttttcacct	catcctgctt	atattaaatt	240
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gttggcattg	agtcaaacca	tcttctccca	aggtttttgc	agctcacaga	aagaataatc	420
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cctttgtgtg	ttcttgctga	agcatttgcc	atctatcaat	cgctgcctta	ttttgaatca	660
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gaaagaagag	acatcctcgg	aatctttccc	attaaaaaaa	agaagatgtg	aagtacagca	840
ttccagtgtg	acacgagaaa	agacaggctg	tggattcagt	gcagtaaata	aaacacagga	900
agtattcttg	tggaaaaana	aaaaaaaaaa	aaaaaaaaar	aaaaaaaaaa	aawaaaaaaa	960
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a		1001

<210> 156
 <211> 1142
 <212> DNA
 <213> Homo sapiens

<400> 156						
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gtgtttggagg	ccatgcggag	gggatattca	agagaagctt	atgtggagtt	agttcaccat	360
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ggttaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaag	ggcggccgct	1140
ct						1142

<210> 157
 <211> 2238
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (45)..(45)
 <223> n equals a,t,g, or c

<400> 157						
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<210> 158
 <211> 1052
 <212> DNA
 <213> Homo sapiens

<400> 158						
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa			1052

<210> 159
 <211> 1492
 <212> DNA
 <213> Homo sapiens

<400> 159						
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<210> 160

<211> 954

<212> DNA

<213> Homo sapiens

<400> 160

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aacctatacc	aggaccagag	tgaagacaag	agagagaaga	aagaggccaa	ggagaaagaa	360
gagaagagga	agaaggagaa	aaagacagca	aaggaaggag	agagcaactt	gggactggat	420
ctggaggaaa	aagagcccgg	agaccatgag	agagcaaaga	gcacagtcac	gtgaagattc	480
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ccatgcaccc	actgccagct	gagagctgct	tcccaatggc	ctgcattaaa	gcatttcgtaa	900
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<210> 161

<211> 2784

<212> DNA

<213> Homo sapiens

<400> 161

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taaaggctta	tgtctcttat	ttggcgatgat	gtgtacctct	atggctgtgg	ctgcatctgt	180
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<210> 162
 <211> 943
 <212> DNA
 <213> Homo sapiens

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<210> 163
 <211> 1794
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1675)..(1675)
 <223> n equals a,t,g, or c

<400> 163

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catagcattg	ttgaaaagat	taaatgacat	aataagatga	tgcatatata	gtagctagca	360
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<210> 164
 <211> 887
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (303)..(303)
 <223> n equals a,t,g, or c

<400> 164

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catgcacatg	ttaaaatttc	aaactatatt	aaagagtgtg	caattaaaag	gaagtatatcc	240
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ttctttttgt	aattacaaaa	atataaactc	actacatatg	ttattctacc	acatgctttt	420
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<210> 165
 <211> 1222
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 167
 <211> 1262
 <212> DNA
 <213> Homo sapiens

<400> 167						
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gtgctgagac	ccccatatcc	cagagtcccc	agcctccctc	aggttactct	gcacccaca	300
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cg						1262

<210> 168
 <211> 632
 <212> DNA
 <213> Homo sapiens

<400> 168						
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<210> 169
 <211> 2572
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2527)..(2527)
 <223> n equals a,t,g, or c

<400> 169						
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catgggcgca	cttgtgcgct	gcacaccct	gtgcctgggc	tactacaaga	acattcacga	180
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gagcttcttg	tgcccttttg	ctctaattct	ggccacacag	agaatcagtc	ggcctattgt	300
caacctcttt	gtttcccggg	accttggttg	cagttctgca	gccacagagg	cagtgggat	360
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<210> 170
<211> 1488
<212> DNA
<213> Homo sapiens

<400> 170
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aaatatataa caagctgtgt tttcctaagc tgaaaaaaa aaaaaaaa 1488

<210> 171
<211> 609
<212> DNA
<213> Homo sapiens

<400> 171
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aacactggcc ctacagagcag gaccagaga aggcctgggg cgcccggtgt gtggagcctc 180
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gctccagggg ccatcactgc ccccgccctg tcccaaggcc cggctgttg ggactgggac 540
cctccctacc ctgccccagc tagacaaata aacccagca ggccgggaaa aaaaaaaaaa 600
aaaaaaaaa 609

<210> 172
<211> 612
<212> DNA
<213> Homo sapiens

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<400> 172
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gaaattcccc gtggcattag aggtgtttcg taagggtgctc cctgctgtct gtcctacaga      180
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aagtgtttga aggtatatag tcttggccaa caaattgtaa gcaaaatacc aggaacttcc      420
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tccttagaag gagaattgct tgaaccgga aggtggcggg tgcagtgagc caagatggcg      540
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<210> 173
<211> 704
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (287)..(287)
<223> n equals a,t,g, or c

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<400> 173
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ctctcgcaaa caaagacagc cacttcagag ctcttaggaa atagtgggtgc tcccatcatc      180
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cctctacaat atgccagga atttctggca ttttgccat cttattnata ggctattact      300
gaatttmagc ctmatcctmc caaattatta atgccaaaat attactctt gattcttagg      360
tgagtgcacc catgccaaata aatttgccat gatctaacct taaatgtatt ctcatatatg      420
ctgtccaagt ttctrctgat taaaatggca aggccttttag ttctcctaca taggttttct      480
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aataggtagt agggtaaatt ctttatttta ttatttttgg agacagggag ggtcttgctt      600
tgttcagact ggagtgcagt ggtgtgatca tggctcattg caactttgaa ctcttgggcg      660
acagagcaag actccatctc aaaaaaaaaa aaaaaaaaaa tcga                                         704

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<210> 174
<211> 613
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (25)..(25)
<223> n equals a,t,g, or c

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<400> 174
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catgaccacg cgcacctact acacccccac caggatgaag gtcagtaagt cctgcgtgcc      420
ccgctgcttc gagactgtgt atgatggcta ctccaagcac gcgtccacca cctcctgctg      480
ccagtacgac ctctgcaacg gcaccggcct tgccaccccc gccaccctgg ccctggcccc      540

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<210> 175
 <211> 1022
 <212> DNA
 <213> Homo sapiens

<400> 175						
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acacactgat gctcaaatcc taagggtcca agctctaggc cctggaggct ggtagaagg	180					
gatctatgcc tggaatcctg gcagggattc ctgtcaagga cttgtgttta agcctgcttc	240					
agggtctcag gctgcttctg ctctgtgtct gcccaggctg gctgagcggg tggatgggtg	300					
gacagaaggg ctcaccaagg attgtggaca tagggtaggc cctggtacca cgggtttcag	360					
gctgttatca cttcccttgt agaacatag ccagaagcag atgagccagg gtagagggct	420					
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ggcactggga ctggtactg cctcctcct tagcctgggc cttccccaga ggtattaaag	840					
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cg	1022					

<210> 176
 <211> 1766
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1750)..(1750)
 <223> n equals a,t,g, or c

<400> 176						
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cccgaattcc ttcttgacc aggaaagccg gagacgaaga ttcaccattg cagactcggga	180					
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accatcttat ggcaagccac ggcctttgtc catgcctgct gatgggaact ggatggggat	300					
tgtggaccct tttgccagac ctcgagggtc tggcaggaaa ggggaggatg ccctttgccg	360					
gtatttcagt aacgagcggg ttcctccgat cattgaagag agctcctctc ccccataaccg	420					
gttctccaga cccacgaccg agcggcatct ggtccggggg gcggactaca tccgaggaag	480					

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<210> 177
 <211> 815
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (406)..(406)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (794)..(794)
 <223> n equals a,t,g, or c

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tktaaaawtac	acagaggaaa	mtattgtgga	aggacctctt	tgttgctttc	ccttctaagt	120
tgtcttcttc	ttcttcttct	tcttcttctt	cttcttcttt	ggtccttaag	tgaaataaag	180
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catggctttc	agatcaggta	ttctgcacat	tcattccaag	gtcatagatt	tttaaaagga	300
cctggatttg	aagagatggc	aaatgrtgag	ccatcagaaa	acttaatttg	gaaaacatgt	360
atgtagccag	tgtggatatt	gtggcctctc	tcaagacaca	ttgcnactg	tagacytcat	420
tcagtccagt	gtgagtattt	tggagtaggt	tggatgtaga	ttttgttttt	atcgttgatt	480
tgtaccgaca	gaaatagaca	tttcatcatg	taaaattcct	gttattctgg	aaaaacctat	540
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accctatcct	gttattttaa	tgtgaacatt	tattgtacat	tcagtgagtt	atagtgttaa	720
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aaaaaaaaaa	attnctgcgg	tccgcaaggg	aattc			815

<210> 178
 <211> 617
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (9)..(9)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (513)..(513)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (559)..(559)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (587)..(587)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (602)..(602)

<223> n equals a,t,g, or c

<400> 178

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agagctcacc	aatcagactg	cccttgtcta	tccatgagca	gatgtttgat	agtattgcgg	180
aggccctcta	gtgggtatgc	tgccaagcaa	ctggagtggc	acttgggctc	taatccagtt	240
gtctatccct	ttcaccttgg	catttcatca	gccaaacaaa	aaccaactaa	ctcagaaaaa	300
aaggaaagcc	cctcaagggc	cctttgaccc	cgatatctac	atagatgcta	tcgggggtccc	360
ctgaggggta	ccaaacraat	tcaaagctcg	aaatcaaata	gctgctggat	tcaagtctgt	420
ccttttcttg	tgggtacta	ttaataaaaa	tgtagactgg	ataaattaca	tatactataa	480
aaaaaaaaaa	aaaaaaaaaa	ctcgaggggg	ggnccgggtac	ccaattcggc	ctatagttag	540
tcgtattaca	atcatgggnc	gtcgtttttac	aaagtcgtga	ctggggnaaa	acctggcggt	600
anccaattta	atcgggct					617

<210> 179

<211> 2286

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2262)..(2262)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2264)..(2264)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2272)..(2272)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2278)..(2279)
 <223> n equals a,t,g, or c

<400> 179
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 cgacgtagct tttggctttt ttctgggcta catgcagtac agcatcgtgg actattgctg 180
 gctctcacc cacaatgctc cggctcctct tttactgtgg agtcaacgat gacaccatct 240
 cattgattat ggcaccagga agtctgaagg tttccacatt cgatgatgtc aacctaacc 300
 agcagccatc ccgcttgtcc ctcttaggca tttcaggctt cctttgggat ttcagggtgc 360
 ccatgatctt gatgtgctgc taggctggag cacacactgg ccattactga acacagccat 420
 attagggaaa gcaaaaaaac ccaaaaaatc ctctattgta tatttattca acaactgttt 480
 atgtttccag gacaactgca aagaaaaac gctgaggtgg ttatactgtt gctgttaaaa 540
 gttggtatca gtaagatttg tgttttgtga taatccctaa atcaacatac cacttgtaaa 600
 ctgaacttcg agaaagaaac atgatgttca ttctgtaaat atacatgcag acagggtcatg 660
 tactaatcct agtccttttc ctgaggtaga ttttaaacag tttttttaa gtccaagaca 720
 taggtttttc tagttttatt cctgaagatc tgttgccaca gttgggagat ttcttcttaa 780
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 tagtga 2286

<210> 180
 <211> 1240
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1225)..(1225)

<223> n equals a,t,g, or c

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aaacatgata cccacagccc agccaacaca aaacttctga tgctctgttt tctcatctgt      120
gaactggagc taaggctaag tggctctgtct gtttaataag agtttgaatc agatggcctg      180
gcatgaagag tcaactggcct gagagaatgt caggggcatt tgtaaatgtg taaagggctg      240
aaaaatcctg agggattatt attattgcta ttgttggtat tattcacaga cacatccaac      300
agccattgtc tgcctcctta tctgtcatgc tctctgcacg agcgtcagcc tgagcttcaa      360
tctgtgtgta tatctgcagc ttacgtcctt gccaccctc cagaacccag tttcatcctt      420
gtagggtttt ccgaagcagg atttgacaaa gtggcgtgtt ttcttaagta tttattttgc      480
aggccattta ctggcatgg ctatttttac agtgggtaag gagcaaggct aaaaataact      540
tagctcataa ccagacaggt tctgcatttg acatttacgt ggaattcatt tgcattctcat      600
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ctatggaggc ctctactccc aactgggtca cctaccagtg gggcaaactg cttcaccttt      840
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atttataata ttgccccatg cctggcctat aggatatgtt agactatttt ctctcttttc      1020
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tgggagttct taagatgtaa ggactcctgg ctgacttgac ttgtgtgggc taaggctacg      1140
ttttctaaaa ctkgggagag ggggaagtg gtaagggtgg gcgataatcc tgtctattta      1200
aatgattaac atttttctct tgggntatca aaatttgcat      1240
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<210> 181

<211> 997

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (963)..(963)

<223> n equals a,t,g, or c

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<400> 181
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cgccccgagg cggtagcttc agagcctcca gtgcctgtgg ggctggaggt gaagttgggg      180
gccctggtgc tgctgctgtg gctcaccctc ctctgcagcc tggtgcccat ctgtgtgctg      240
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agctgtttcg cggggggcgt ctttttgccc acttgtctcc tggacctgct gcctgactac      360
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tctgtgctag agggcatggc agctggcacc tttytytata tcaccttyt ggaaatcctg      960
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<210> 182

<211> 1770

<212> DNA

<213> Homo sapiens

<400> 182

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ctctgatctg	cagagctcca	ggacacctgg	ggctctggaag	gcgaggctg	aggacaccag	180
caaggacccc	gttgacgta	actggtgccc	ctaccaaatg	tccaagctgg	tcaccttact	240
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aagcagaagg	tgctgacctc	tttggcctgg	aggtgctgcc	ctggctacac	gggccccaac	420
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gcacaaagcg	gagggcgagc	gggcgcgggc	ggccacgtcg	cggctccgga	gccaaagtga	1740
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<210> 183

<211> 1167

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (432)..(432)

<223> n equals a,t,g, or c

<400> 183

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gcagttggaa	ttgatcacac	cttttcagtt	gtacttcaat	cctgaattaa	tctttaaaca	180
ctttcaata	tggagattaa	tcaccaactt	cttatttttt	gggccagttg	gattcaattt	240
tttattttaac	atgatttttc	tatatcggtt	ctgtcgaatg	ctagaagaag	gctctttccg	300
aggtcggaca	gcagactttg	tatttatgtt	ccttttttgt	ggattcttaa	tgaccttttt	360
tggctctgttt	gtgagcttag	ttttcttggg	ccaggccttt	acaataatgc	tcgtctatgt	420
gtggagccga	angaaccctt	atgtccgcac	gaacttcttc	ggccttctca	acttccaggc	480
cccctttctg	ccctgggtgc	tcatgggatt	ttccttggtg	ttggggaat	caatcattgt	540
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tcaacctggg	ggaataagaa	ttctgaaaac	accatctatt	ttgaaagcta	tttttgatac	660
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tgacagcttg	gcagatttta	actccagaag	cactttatga	aatggtacac	tgactaatcc	900
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gtgtaaattg	aagtttcaga	gaggacaaaa	taaaacggaa	ttccattttt	ctctcactgt	1140
aaaaaaaaaa	aaaaaaagg	cggccgc				1167

<210> 184
 <211> 1618
 <212> DNA
 <213> Homo sapiens

<400> 184						
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ctcctgctct	ttctcctgat	gtgtgagatc	cctatgggtg	agctcacctt	tgacagagct	180
gtggccagcg	actgccaacg	gtgctgtgac	tctgaggacc	ccctggatcc	tgcccatgta	240
tcctcagcct	cttctctcgg	ccgccccac	gccctgcctg	agatcagacc	ctacattaat	300
atcaccatcc	tgaagggtga	caaaggggac	ccaggcccaa	tggtccgtgc	agggtacatg	360
ggcagggagg	gtccccaagg	ggagcctggc	cctcagggca	gcaaggggtga	caagggggag	420
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<210> 185
 <211> 1338
 <212> DNA
 <213> Homo sapiens

<400> 185						
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aagtttgac	tgccctgct	agatgactca	gtccgtgtgt	ataatgccag	cagcaccata	180
gtccccctcc	tgaagcaccc	gctgcagcga	aatgtggcgt	ctctggcctg	gaagcccctt	240
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acctccttgt	ctaccgcacc	ctcttctggc	tgtgcccaag	tgctgtctca	ccctgggcat	360
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cactgtattg	ggagagccac	tgatttactc	cctgtctttt	ccagaacgttg	tggtgaggg	720
aaaggggtgc	gttggaggtg	caaagtcagc	aacgattgtg	gcagatctgt	ctgagacaac	780
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accagtcatc	ctcctttttc	gcactcgaaa	cagccctgtg	tttgagctcc	ttccctgtgg	960
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gccccttggg	accctctccc	agggccacca	cctgttctgc	cccactcccc	acattccac	1260
ctctaagaat	aaataagttt	tccttttgtt	ttccaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1320
aaaaaaaaaa	aaaaaaaaaa					1338

<210> 186

<211> 813

<212> DNA

<213> Homo sapiens

<400> 186

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aagcagacat	agcttcagat	gcagcttgat	ccagggtca	gatgcatga	tcagaatcca	120
attcttgcac	ctgtttcttt	gggttggtt	cattttcagg	cagccccctt	cctcatatcc	180
tcaagatggc	agagacagcc	catggtcttt	cccttgca	gacagatcac	caggaaacaa	240
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aggccgggct	ggccttccct	aaagtgtatg	tgctgcgtgg	gggagaggta	cggatctgaa	420
ccaaaacgag	ggctgtccag	cgtcagcaaa	tatctcccgc	agtcccagtg	cctccagcag	480
gaggcaaaagc	atcaaccctt	ccgtctggct	cctctactgaaa	aattccctc	agcagcctca	540
caggcccttag	gcttgtctta	gctacttctt	catctacttt	tttgctttct	taattatttt	600
tcttttcttt	tttcttattt	tattttattt	tatttttagat	ggagtttcgc	tccgtcgccc	660
aggctgaagt	gcagtggcgt	gatcttggct	cgttgcaacc	tccacctccc	gggttcagga	720
gaatcgcttg	agccccagga	ggcggagggt	gtgggaagcc	aagatcgcac	cactgcactc	780
cagcctgggc	aacaagagca	gaacgccatc	tca			813

<210> 187

<211> 2081

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (538)..(538)

<223> n equals a,t,g, or c

<400> 187

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ttaacacccat	ctcagcctgg	gctctccagt	caggagcact	ggatgcaagt	cggcaggtgt	180
ttgtgtgtgg	aaatgacagc	aaagccaagc	aaagagtgat	ggatattgtt	cgtaatcttg	240
gacttactcc	aatggatcaa	ggatcactca	tggcagccaa	agaaattgaa	aagtaccccc	300
tgcagctatt	tccaatgtgg	aggttcccct	tctatttgct	tgctgtgctg	tgtgtcttct	360
tgtttttcta	ttgtgttata	agagacgtaa	tctaccctta	tgtttatgaa	aagaaagata	420
atacatttcg	tatggctatt	tccattccaa	atcgtatcct	tccaataaca	gcacttacac	480
tgcttgcttt	ggtttactcc	ctgggtgttat	tgctgccatt	ctacaactgt	accgaggnc	540

caaaataaccg	tcgattccca	gactggccttg	accactggat	gctttgccga	aagcagcttg	600
gcttggtagc	tctgggattt	gccttccttc	awgtcctctm	cmcacttggtg	attcctattc	660
gatattatgt	acgatgraga	ttgggaaact	taaccgttac	ccagscaata	ctcaagaagg	720
agaatccatt	tagcacytcy	tcagcctggc	tcagtgattc	atatgtggct	ttgggaatac	780
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aatttagctg	gatttctgaa	ctatggtttt	gaatgtttta	agaagaatga	tgggtacagt	1200
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cagcaagcta	aataaatatt	gtaaaattgc	actatatattag	gttaagtatt	atttaggtat	1980
tataatatgc	tttgtaaatt	ttatatcca	aatattgctc	aatatttttc	atctattaaa	2040
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<210> 188
 <211> 312
 <212> DNA
 <213> Homo sapiens

<400> 188						
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agggccagcc	caccagcat	ccccaccct	gatgacgctg	tcccacaac	tggtgaact	120
ggtgcatttt	gtgtgtgcct	tccagagcca	gtggactggt	gtgtatccaa	tgatgccacc	180
tctgaaacct	acagaaccac	tatgctttgc	atgtgtaccc	tgcagggctc	gagggccagg	240
ctgtctggtg	gctctgctcc	tgggtgacag	agcaagactc	tgtctcaaaa	aaaaaaaaaa	300
agggcgggccg	ct					312

<210> 189
 <211> 864
 <212> DNA
 <213> Homo sapiens

<400> 189						
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ctgccagccg	aggaagcccc	cagcactgac	catgtctatt	atggaccaca	gccccaccac	180
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cgtgcgtgga	gagaaaggcc	aagctgatka	mtcccaaacg	gscgggaart	ycacggstga	420
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cctctgcggg	tttcgtccat	cgcatacact	gatgcccg	gacttggctg	tcctgggctt	600
cccctcgggc	tccaggtgag	gctgcccatt	gcaggcactg	ggtaggcctg	accttgctg	660

ggctcatggc	cctgtagcgc	ttttgttact	tgaatgtcta	gctgagcctg	tttttgatgg	720
agctactact	gtaatgcgtg	aactaacaaa	cctgtgaact	gtaaataaggc	ccctggaagc	780
acgtgcttaa	gcccttttgc	tgatttttta	aaatatcatc	tagcgcaaaa	aaaaaaaaaa	840
aaaaaaaaaa	aaaaaaaaaa	aaaa				864

<210> 190

<211> 1267

<212> DNA

<213> Homo sapiens

<400> 190

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caagacacag	tgtagggccc	ggcccggtgt	ggccccagga	ctccttttga	atatagctgt	180
ggacaatgaa	tcctgcgagc	gatgggggca	catcagagag	catttttgac	ctggactatg	240
catcctgggg	gatccgctcc	acgctgatgg	tcgctggctt	tgtcttctac	ttgggcgtct	300
ttgtggctct	ccaccagctg	tcctcttccc	tgaatgccac	ttaccgttct	ttgggtggcca	360
gagagaaggt	cttctgggac	ctggcgggcca	cggtgcagt	ctttggtgtt	cagagcacag	420
ccgcagctgt	gggctctgct	gggggaccct	gtgctgcatg	ccgacaaggc	gcgtggccag	480
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gtagctacaa	agtattttta	agaaattata	attttatgac	tgtcaaaaaa	aaaaaaaaaa	1260
aaaaaaa						1267

<210> 191

<211> 1258

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1196)..(1196)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1200)..(1200)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1237)..(1237)

<223> n equals a,t,g, or c

<400> 191

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cacaagtaca	tcccccgag	ggcagtgtt	tatgtacctg	gaaatgatga	aaagaaaata	180
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cttgaacaac	caatgaattt	aatccctttt	gtggaaactg	caatgggttt	gctcaatttt	540
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aacttggtg	tgccagagga	cgccaatgaa	gtttgaaaca	ccaacaatca	gagattttgt	1140
ttctgttctc	cattaaatca	tgagcttttg	tgcccagagc	tctggacgga	ctgttncctn	1200
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<210> 192

<211> 883

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (19)..(19)

<223> n equals a,t,g, or c

<400> 192

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gctctacgtt	gatgaagaag	aagtctgac	ctgaggggtc	cgcgctgctc	ttccctgaga	120
gtgaactttc	catccggata	ggtagagctg	ggcttctttc	agacaagagt	gagaatgggtg	180
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tcatcttggc	catcactata	cacaacgttc	cagaggggtc	cgctgttggg	gttggatttg	360
gggctataga	aaagacggca	tctgctacct	ttgagagtgc	caggaatttg	gccattggaa	420
tcgggatcca	gaattttccc	gagggcctgg	ctgtcagcct	tcccttgcca	ggggcaggct	480
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ttgctgcccg	tgccatgggt	tacgtgggtc	tggacgacat	catccccgaa	gcccagatca	660
gtggtaaatg	gaaactggca	tcctgggcct	ccatcctggg	atttgtagtg	atgtgtcac	720
tggacgttgg	cctgggctag	ggctgagacg	cttcggaccc	cgggaaaggc	catacgaaga	780
aacagcagtg	gttgggttct	atgggacaac	aagcttcttt	cttcacatta	aaactttttt	840
ccktcctctc	ttcttcaaaa	aaaaaaaaaa	aaaaaaactc	gag		883

<210> 193

<211> 1465

<212> DNA

<213> Homo sapiens

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<400> 193
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gtctcgaaaa aaaaaaagtt ggaagcagaa gtaaaaaaca tggtaaagaa tgagaactaa      120
ataaatataa taattgagag gtctgcatta gatgtggcag ggagaacaag caaaagaga      180
tttcagagaa gatcactgga attggcagag gccttgaagg gcagagtcta gcatacagaa      240
gatgtaaagc cacattctgt gaaggtaagt agatgtgttt acctcttttg cactgtactg      300
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<210> 194
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<212> DNA
<213> Homo sapiens

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caagaaactc tgggtcccttc atgaacatat caagatcgtc catggatatg cagaaaagaa      240
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caatcaatat gaatcctgta agcactcttc ccctcgggcc atccccacc cttctcaca	900
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 <222> (248)..(248)
 <223> n equals a,t,g, or c

<220>
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 <222> (328)..(328)
 <223> n equals a,t,g, or c

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<220>
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 <212> DNA
 <213> Homo sapiens

<400> 196	
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caaaagaact tcatcattaa catgacttgc agattttgct ggcagcttcc tgaaacagat	360
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<211> 596

<212> DNA

<213> Homo sapiens

<220>

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<222> (4)..(4)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (8)..(8)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (28)..(28)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (57)..(57)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (61)..(61)

<223> n equals a,t,g, or c

<400> 197

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tgtttcttcc	ctttctgata	ttgttgcctg	tggcatattc	tttgtatggc	gaatttaata	540
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 <211> 629
 <212> DNA
 <213> Homo sapiens

<400> 198
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<210> 199
 <211> 2497
 <212> DNA
 <213> Homo sapiens

<400> 199
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 <212> DNA
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<400> 200						
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 <212> DNA
 <213> Homo sapiens

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<400> 201						
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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (230)..(230)
 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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<210> 203
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 <212> DNA
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<400> 203

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<210> 204
 <211> 1417
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 <213> Homo sapiens

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<210> 205

<211> 1965
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (333)..(333)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1961)..(1961)
 <223> n equals a,t,g, or c

<400> 205
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa naaaa 1965

<210> 206
 <211> 529
 <212> DNA
 <213> Homo sapiens

<400> 206
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<210> 207
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 <212> DNA
 <213> Homo sapiens

<400> 207						
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aaattc						1146

<210> 208
 <211> 1346
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (537)..(537)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (880)..(880)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1115)..(1115)
 <223> n equals a,t,g, or c

<400> 208						
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<210> 209

<211> 1974

<212> DNA

<213> Homo sapiens

<400> 209

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<210> 210
 <211> 890
 <212> DNA
 <213> Homo sapiens

<400> 210						
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<210> 211
 <211> 1043
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (987)..(987)
 <223> n equals a,t,g, or c

<400> 211						
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aaagaagata	tacaaatagt	caacacatat	aaagaaattc	tcaacatcac	taatgatcag	600
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<210> 212
 <211> 1079
 <212> DNA
 <213> Homo sapiens

<400> 212
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 cttccctttg tgcttaggtc tttttcttct gtgagcttta gataaacaac ctagtgttta 180
 aactttttta taagggattc attttttaac acatgagaat tcattttcaa attttggttt 240
 tagttattta ttttattcta ctggctctt tttcagacag atgttctctc ctggattgta 300
 aaagtcgaat tcaaaggatt tttatttgta atatacttaa ctttctctt gtaagttgcc 360
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 tcagaatcac ttgacagagc ttttaaaaac tctagatgcc tggggaccac cccaaagact 540
 ccattttgtt gtcattgggtc aaagcacagt cttctagttt gcagctagtg ttgagtacaa 600
 ctagagttta acccagttga attttagttt aatcttggct ggtcttgaag atgttagtaa 660
 tctctattca tttttttkga aagttaccaa tgaratcaga aagttaatta gaaaacatct 720
 agttgaatcc cctgttttta atagatgggg aaaccaagac ccagagaata taatccaaag 780
 ctacctgtca cataggccac aatttctttt ccaatattct gttcttcgct gttcttctaa 840
 tttgcagaac tcctctttta aaaacctttg gagaatgtat tggcctcata cctcttcct 900
 tcagcctgaa agacatgcac ctgtcactta tttatgatat ttaaagcaa cctctagaac 960
 aggggtgtcc aatcttctgg cttccctggg ccacattgga agaagaaatg tcctgggcca 1020
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<210> 213
 <211> 2103
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2101)..(2102)
 <223> n equals a,t,g, or c

<400> 213
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 ctttaagggc ggggctccg gacgactgta tctgagcccc agactgcccc gagtttctgt 180
 cgcaggctgc gaggaaggc ccctaggctg ggtctgggtg cttggcggcg gcggcttcct 240
 ccccgctcgt cctccccggg cccagaggca cctcggttc agtcatgctg agcagagtat 300
 ggaagcacct gactacgaat gctatccgtg cgagaacagc tattccacga gaggatccgc 360
 gagtgtatta tatcaacact tctgtttgca acactgtaca tcctctgcca catcttcctg 420
 acccgcttca agaagcctgc tgagttcacc acaggggtgc ctgggcccgg tctmtgagac 480
 agtgggtgat ttgatgctcc tcactctgct ggtgctaggt atgtgtggg tggcatcagc 540
 cattgtggac aagaacaagg ccaacagaga gtcactctat gacttttggg agtactatct 600
 cccctacctc tactcatgca tctccttctc tggggttctg ctgctcctgg ctgctggaag 660
 acctggagga gcagctgtac tgctcagcct ttgaggaggc agccctgacc cgcaggatct 720
 gtaatcctac ttctgctgg ctgcctttag acatggagct gctacacaga caggctcctg 780
 ctctgcagac acagagggtc ctgctgggta tgtggcttcg tagggcttgg gatacctggg 840
 tttccccaag gagatagcc cctgggtcca ggtgcttgc gacagcctcc catccctgca 900
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 ccttctccaa gctgggctcc tttgggtgcc tcatcaggt tgtactcatc ttttacctaa 1140
 tgggtgtcctc agttgtgggc ttctatagct ctccactctt ccggagcctg cggcccagat 1200

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caggcctcac	cacactctgt	ctggtgaaga	ccttcactgc	agctgtgcgg	gcagagctga	1440
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ggaagacca	gcaccagtga	cctccagctg	ggggtgggaa	ggaaaaaact	ggacactgcc	1560
atctgctgcc	taggcctgga	gggaagccca	aggctacttg	gacctcagga	cctggaatct	1620
gagaggggtg	gtggcagagg	ggagcagagc	catctgcact	attgcataat	ctgagccaga	1680
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aaggggatag	ggaggaggag	gcttcagcca	tcagcaataa	agttgatccc	agggtttgct	2040
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nna						2103

<210> 214
 <211> 1212
 <212> DNA
 <213> Homo sapiens

<400> 214						
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tcttcggccg	gcgctgggcc	atcgccagcg	acgacttggt	cttcccaggg	ttcttcagc	180
tggctcgtcg	agtgcgtggg	tggattggca	ttctgacgtt	gtatctcatg	cacagaggaa	240
agctggactg	tgctgggtga	gccttgctca	gcagttactt	gatcgtccct	atgattctcc	300
tggcagttgt	catatgtact	gtgtcagcca	tcatgtgtgt	cagcatgaga	ggaacgattt	360
gtaaccctgg	accgcggaag	tctatgtcta	agctgcttta	catccgcctg	gcgctgtttt	420
ttccagagat	ggtctgggcc	tctctggggg	ctgectgggt	ggcagatggg	gttcagtgcg	480
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ccacagtggg	ttccattatc	attgtctttg	accctcttgg	ggggaaaatg	gctccatatt	600
cctctgcccg	ccccagccac	ctggatagtc	atgattcaag	ccagttactt	aatggcctca	660
agacagcagc	tacaagcgtg	tgggaaacca	gaatcaagct	cttgtgctgt	tgcattggga	720
aagacgacca	tactcggggt	gcttyttcga	gtacggcaga	gcttttctca	acctactttt	780
cagacacaga	tctggtgccc	agcgacattg	cggcgggcct	cgccctgctt	catcagcaac	840
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ccaggaaagt	gatctggatg	cagaattaga	aaactgccat	cattacatgc	agtttgcagc	960
agcggcctat	gggtggsccc	tctacatcta	cagaaacccc	ctcagggggc	tgtgcaggay	1020
tgggtggtgac	tgaaattagc	tggacatggg	tgcacacacc	tgtaatcaca	gctactcggg	1080
aggttgaggc	gggagaatcg	cttgaaccag	ggagttggag	gttgcaagtga	gtggagatca	1140
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aaaaaactcg	ag					1212

<210> 215
 <211> 616
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature

<222> (580)..(580)
 <223> n equals a,t,g, or c

<400> 215
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 tgtggctgtg gtgggtgtggg tctttgcctg tggacccgtg gaagacaaag aagacagttt 180
 tggatggta agctattttc ttgcttcagg gctccctccc ctgctttttg aagcctcaca 240
 aaccaggact gtgagggcag gaaggcttg ggtctttgtg tgctgagcct cattaggggt 300
 ttaagaacct ccctcctttc atctctagct tacgagaggg atgattcatt atcttcctc 360
 ctgaggctgc agtagaagca gacagtctct gcctcctgc ttgcctttcc tccctcccat 420
 tcaactgttg ttattgccct caagaataac aggttgccca gctactcgag argcttaagt 480
 gggaggattg cttgacccca ggagttcgag gctgcagtga gctatgatcg cttcactgag 540
 ctatagcctg gcagacacag agagacccta tctcaagcan acagacaaac aaaaaaaaaa 600
 aaaaaaaaaa ctcgag 616

<210> 216
 <211> 1144
 <212> DNA
 <213> Homo sapiens

<400> 216
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 aatttacata tatctgtgtg tatatatgtg tgtggcacag tcacacacac acacacaaat 180
 atgtatacag atgcttcctg gcttacaata ggatttcac ctgataaatt catcgtaaatt 240
 caaaagtatt gcaagttgaa aatgcatttc ataccccagt aagttcatca tttgktcaaa 300
 agtattgtaa gtcagaatac atttgacatc tggataagtc cattataaag tcaaaacatt 360
 ttaagtctaa tcattgtaat ttgggtaccg tctatgtaga tacgtaaatc atacattaag 420
 ggtgactagg tgccagggtg aatgttatga aaatgaattt caagtctcac aggcacattc 480
 acccattaca aatatgtacc acattcacct attacaaata tgtacacatg tatgtgttca 540
 tgttcatact acaatggcag agttgcataa ttgtgacaga aatcaaattg cttacaataa 600
 ctaaggcatt tctacatagc cttttaaagt aaaaagttta ttcatgtgtg gtctacataa 660
 cgtggaggaa tttgtagcgg acaggctatt acagtcagtg aattgaaagg aagggagaag 720
 ttgggggaga ctagtagctt tttgaaggta ttattttaga gatttatgaa kttttggaga 780
 acaagggatg aggaaaaagt attgaagaat ttggggagagc aggatataca ttagtttctg 840
 actttatttg gaatgcagat cagagaaagg ctgggataga aaactgaaat aataattata 900
 gccttcggtg aatatcagca ggaatgttg gactataggg agggtagact aggtgataga 960
 gccattgtg gcagtttcgg taggacatca ttggtgtata cgtatatgtt atttgtgatt 1020
 ttgtttatct ttttttaata agcaaaagga aaagtgtcct gatatgtttt ggctttgtga 1080
 ccccatccga atctcacctt gaattgtaac aaagttttac catgttaaac aggcagtct 1140
 cgta 1144

<210> 217
 <211> 1649
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1249)..(1249)
 <223> n equals a,t,g, or c

<400> 217
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 gcacgaggga tctgtgtggc atggatgtg tgtttatgtg tattgtgggt gtctgtgtgg 120
 catgctgtgc gtgtgtgtat tgtggatgtt tactgtcccc ggcagtagaa aggacgtcgg 180

ggaagcagcc	ccagcatcag	ggacaggcca	ggagtgcaga	atgcatggaagctgggtcagg	240	
tcggagcctg	ggatgaagga	agcacagaga	tgcaaggggtg	ccagggccca	tggaaccaag	300
agccgatgat	caaggccaca	gtgcacacag	ccctggaggc	aaaggacata	ttcattttcac	360
aaggattaaa	aagcatgggc	caaggctggg	ccccaggcca	ggactgggga	tacagagtgg	420
atcagtcccc	atcctgccc	ccagggtgctt	accacacccc	attcacctca	caggttttccc	480
caccccagcc	ccttggcgag	ctcctcctca	ttcctcaaar	cgtcgctkag	gtcacgctcc	540
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gtcagagagc	tccgtggcct	gtttccactg	gactgagtct	tctgggggt	gctgggtgcag	660
agcagarccc	tgggctggga	gtcccggcac	ctcgttcac	tccctcacc	acagcctcgc	720
tgtttaacct	caggcaggcc	gtgtmcctcc	tcagcctcac	tttccccttg	tgtaaaatga	780
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ggctaattgga	ggtgctgacc	aggggcaaga	agggatttga	aaaacgcttt	gaaaaattca	900
tagcaggagg	caaaggagaa	agagtcttta	ttttcgtaga	gcgggaggca	ggaggagtta	960
tggacagagg	ctgtcgatga	aaaggacagc	atctcagagc	actttgtggc	atttaatgtc	1020
taatgcctcc	tcccattaaa	gcagtggcat	caaataattb	ccaaagcagc	attaaaaatt	1080
aacctttacc	atggggatgt	ataaaggccc	taagttccct	gagaagtgc	cgaacatcag	1140
gagggtaaag	tgacaggaag	gaaggctaca	agcgggttgt	gaataatgga	agccccaaa	1200
ggtcccccaa	cacagctccc	tgttgacccc	actcccaaag	ccagggcanc	ctccggccgt	1260
gtctctgcag	aggctcccag	cccttcggag	actcccagag	ggcctgcagg	ataaggacag	1320
gccctcagct	gggcatccac	agccttccat	ggcctggccc	tgctctctctg	ggcagctggg	1380
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ggagtgggtcc	gggcaactgga	aatagcacgt	gcagggcac	tgaggcagag	acagctgcac	1500
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ggggacagggt	gggagatgca	ggtaggctctg	actgtgcagg	gccatggtaa	gatgtgggct	1620
tctcgggtcca	gggacagggg	tgccctcga				1680

<210> 218
 <211> 520
 <212> DNA
 <213> Homo sapiens

<400> 218						
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ttgggtgcagt	ggcccctggc	ctgggtattc	tatttaagcc	atgcaaaaac	ccattgggga	120
gaagagttaa	ggttttcctt	ccgcaggaaa	aatgtaggc	tcagagaggc	tatgagacat	180
gagacatgcc	aggtcacaca	gctggtagct	ggcaaagctg	actccaacct	gtgtctgagg	240
gactctgaaa	cctggttctg	gccccactc	tgggcagcct	gtcctctct	acaagccact	300
gcctgcagat	taagcagtc	tagcaaaggc	ctgggagcat	ccagagagtg	cccctggctg	360
gcgagtggta	gagcagcctt	ggtttccttc	ctttgaccct	caaggatcac	aggagtgtca	420
cccagaagta	acttaactta	tgagtgtttt	atgaacagga	aaagcaggaa	aaggggtaaa	480
gtcacatgat	ttcacaacca	aacagcctgt	aaactcgtgc			520

<210> 219
 <211> 1042
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (222)..(222)
 <223> n equals a,t,g, or c

<400> 219						
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tcctatgtaa	aatgctgatt	gcccttttct	gcataattatt	tcagatcttg	ttttctatac	120
ccacaaggat	tttctatata	tttctcataa	acaagagagt	ccacatattt	actacttacc	180
ttatgagtga	acaaaaaaat	cacgattggg	ttcgcagaac	tncaaagtgtg	caccgtgtgt	240

ggctcattag	tggaaaaaatg	ctgctgggttg	cagatataaaa	ggctctgac	aggtggctgt	300
ggggccctaa	tccagaatga	gcaagttat	tttgatcaat	ggagtctaac	ctagtcctcc	360
cccaagggtc	aaaatgtcct	ctggtgcttg	caattttctt	acagtatttt	tttctaattg	420
ataccaagct	gggactctcc	tggatatca	tatttgaaa	tgaaaagtga	aacaaatgag	480
aattttcctt	ttgcgttggt	gaatgcatac	agtgatttaa	gtttgggtgc	attttttca	540
gtctgttgat	tgttctagga	atcgatgctc	acagatcaat	gagtcatgtc	caatttcata	600
aacaactgcc	tggggtgagt	gtggcctcat	aaatgtgaac	aaatagtaat	ggagtggcaa	660
tcaaacctaa	agtgttactg	caaatcatgc	catgctgaaa	gaagaaacat	ctcaaaaaga	720
gaataaacat	ttttagggtc	gggtgtgggtg	gttcatgcct	ataatatcag	cactttggga	780
ggccaaggca	gaaggattgc	ttgaggctag	gagttggaga	ccagcctgag	taacatagtg	840
agacccagct	ccttacaaaa	aaaaaaaaaa	attaacaaag	gattgtgggtg	catgcctgta	900
gtcttagcta	ctcgggagggc	tgaggagggga	agacaacttt	aaccgggaggt	tcaaggtr	960
cagtgtctatg	attgcaccat	cgcgttccag	ccttggtgac	agagcaagac	tctgtctcaa	1020
aaaaaaaaaa	aaaaaactcg	aa				1042

<210> 220

<211> 536

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (536)..(536)

<223> n equals a,t,g, or c

<400> 220

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ctgtcccgtg	accaaactcc	tctctgtccc	cagctggact	cctctagatg	ctcagatgct	120
ccttctcttc	tttccttctc	tgtcacacca	ttcttctggt	ccttggct	tctgtctatc	180
tccttgtgga	gscawaggtt	tggggtttat	atgagtacag	gataggtgac	atgggtggatc	240
aaaaggcaac	attttgtgtg	caaaaacagg	aatgcctggt	ccatttaggg	tcatgggttk	300
ccagggttga	gggtggggcc	tttgctaggg	aaccaccctc	ttctaccag	tattttcctg	360
tctctgtct	gtatcaatag	gtacacaata	twatttaaat	taatkaatga	ctatacatta	420
tgaaatggga	aatgcaagggt	ataaaggaga	attgctgtcc	ttgaaaagaa	atttagtttg	480
tttttttgtt	gagatggagt	cttgctctaa	gctagagtgc	agaatgtaat	caaggn	536

<210> 221

<211> 796

<212> DNA

<213> Homo sapiens

<400> 221

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ctgtatcccc	agcacctctc	tcaactgcctg	gcaagggaaa	gcactcagaa	gacgtgaat	120
gaccargtag	agtgatgggt	tgtacagcac	tgttactcct	tttccatctc	tgtgtcccat	180
gtgaacctta	tggcaccat	gagaaggagc	ttgtaccagg	tttatacttt	ctagtttaca	240
gatgagaaaa	caggatcaga	gtggtacaga	tattggtcta	agtcacagag	aaagtgaatt	300
gtaaaagcag	aaacagagca	caggctgcct	gacttctagt	ccagtgcctt	ttgctcaaat	360
tgctcttat	ttctcagggt	attcttgaaa	tggcagatgg	gattctgtt	taatgaaaca	420
aaagtgacaa	ttctttcttt	cttgagagaga	aggtggagac	aggtctcac	tctatcacac	480
aggctggagt	gcagtggctc	aatcatggct	cactgcagcc	tcaatctcct	gggctcaagt	540
gattctttcca	ccttagcctc	cttgactcac	tgggactaca	ggtgcacacc	accatacctg	600
gctaattttt	aaagtttttt	gtagagacag	ggtctcacta	tattgtgcat	tctggtcttg	660
aactcctggg	cccaagtgat	cttcctgcct	cggctttcca	aagtgtgga	attacaggca	720
tcaccccat	gcctagcctg	aaaattcttt	ctatgtcctt	aacatcttct	ttcccagtat	780
ttctccatcc	actcga					796

<210> 222
 <211> 1037
 <212> DNA
 <213> Homo sapiens

<400> 222
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 ttccaccttc ttgtggctgc tggcattctt tggcttgggg tcacatcact cctatcttga 180
 aggcagcaat cttcaaatct gtttcttctt cacatagcct tctgtgtgtg cagtgccctc 240
 tacctctctc ttataaagac atttgtgatt aaatggaggg tttaggataa tctcgtcaag 300
 atccttaact taatcacaac tgcaaaaacc tctttcccaa ataaggtaac attcacaggt 360
 tccagggatt aggacctatt atctttggta agtattattc agcctaccac aatagctaaa 420
 acaattctga aaaagaagaa taaagtgaga gaaatcagtt tatctgattt cgatacttat 480
 tgtatagcta tggtaaataa ggctgcatgg tattaagaa aggacatata tgaatgaaac 540
 agaatagagg acccagaaat agaccacac aaaggagccc aaattatatt taaccaaggt 600
 agaagacaat ttattggagg aaagacagcc ttttcaacaa atgggtactat aacaattaga 660
 tatccatagg caaaaaaaaa aaaaagaatc ttgatctaag gctcacacct tatataaaat 720
 aatattaaac tcatggccag gcacagtgc tcatgcctat aatcccaata cactggggagg 780
 ctgaggcaag agtatcactt gaggccaggg gttcaagact agcctgggca acacagtga 840
 actctatctc tacaaaaaaaa ttataaacta gctgggcatg gtggcacatg cctgtagtca 900
 caactactca cgaggctgag aagatcactt aagctgagtt gttcaagggt ctaatgagct 960
 acaatcgtgc cactgcactc cagcctaggt gacagacaaa gaccccatct caaaaaaaaa 1020
 aaaaaaaaaa actcgta 1037

<210> 223
 <211> 1110
 <212> DNA
 <213> Homo sapiens

<400> 223
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 ctgtcactca gagtttgtgt atctgctgtc tgtggagctc tggaccaggc ttgagggacg 120
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<210> 224
 <211> 841
 <212> DNA
 <213> Homo sapiens

<400> 224

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g						841

<210> 225
 <211> 2128
 <212> DNA
 <213> Homo sapiens

<400> 225						
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ctgccccacc tggacacatg gctcgagg 2128

<210> 226
<211> 956
<212> DNA
<213> Homo sapiens

<400> 226
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tcaaaccag gtcacttccc cagccccctc agcttctagt ccccggtcg gcccatcct 240
caccttctg ggctgaaaca ccacattagg caccagatg cctctgcac tgaaaatctc 300
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ccctgccaca cctcactgct cacaagaaag acatcactgt gtccgttctc cttttttctt 720
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<210> 227
<211> 742
<212> DNA
<213> Homo sapiens

<400> 227
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aggtgattgc aaaggtacca gatttgccaa atatacgtt gcaattaaat ccaaaggcct 180
gtcccacagt tgcttgactt tttttaaagg ccaatttata ctctttctt aaagactaaa 240
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cctcccctac ccmaccagc cagccagctg aactctgggt catcttctgc atccgggtga 660
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gcctctaaaa cctgccctcg ag 742

<210> 228
<211> 1298
<212> DNA
<213> Homo sapiens

<400> 228
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cctgtgtatg cgtgtgtgtg cacgtgtatg aaccagccc ccagctgccc actccattgc 360

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acgctccaaa	tgagccgcca	ctgcagaaac	tcattatggc	ccgggcagga	ctggcacatc	600
caagtatctg	accaggctgt	tccatctgcc	aggcaggctc	tgccctctct	ccaccacact	660
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<210> 229
 <211> 748
 <212> DNA
 <213> Homo sapiens

<400> 229						
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ccatctcaaa	aaaaaaaaaa	aactcgag				748

<210> 230
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 230						
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<210> 231
 <211> 699
 <212> DNA
 <213> Homo sapiens

<400> 231						
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<210> 232
 <211> 1894
 <212> DNA
 <213> Homo sapiens

<400> 232						
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<210> 233
 <211> 1355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1327)..(1327)
 <223> n equals a,t,g, or c

<400> 233
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<210> 234
 <211> 802
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (40)..(40)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (56)..(56)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (59)..(59)
 <223> n equals a,t,g, or c

<400> 234
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ggctccataa	gcagcaggct	ttctgcgggt	atctctcaca	ccgtatcccc		660
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<210> 235
 <211> 1382
 <212> DNA
 <213> Homo sapiens

<400> 235						
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aa						1382

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 <211> 791
 <212> DNA
 <213> Homo sapiens

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<210> 237
 <211> 2163
 <212> DNA
 <213> Homo sapiens

<400> 237						
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ggg						2163

<210> 238
 <211> 2087
 <212> DNA
 <213> Homo sapiens

<220>

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<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

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ctccaattca gttcagggca ttccacagtt aaacagaaat gggaacgtgg ggctcttata      300
aatgaaattg gcgctcacag ttttggtttt cagctcttca tgtctgtaag tgtgctttgg      360
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ttaaaaaatt atataaaactg ttaaaaatatt aacacctcag gctacctgct gtattctgtc      1140
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tcttttattt cctttttttt ttatatgtgc tttcctttct actgctttta gatttgcagg      2040
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<210> 239
<211> 830
<212> DNA
<213> Homo sapiens

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<400> 239
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cctctgactg taaaaaagag tagcagttcc gaaagcaaga gtccctatg aacacggaag      180
aagacatttg caacttttga gtacaacaac tatatttaat agagtaattt aagaacatca      240
gccagtgaat tttatacaag atagtgaag agaaaaggaa gattaattag gggtagttta      300
ggatgccatt aaatagccta gaattagggg agtagtcgtt gaatagaaag gaggcocaa      360
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aggataatga ggaacaaaat agagaactca gaagcaatat ctgactgtta tcattggaag      480
aatttttttg cttgcttgag gctggatatt gaagtggatc aggatacttg agtgactatc      540
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<210> 240

<211> 1939

<212> DNA

<213> Homo sapiens

<400> 240

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<210> 241

<211> 1126

<212> DNA

<213> Homo sapiens

<400> 241

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<210> 242
 <211> 851
 <212> DNA
 <213> Homo sapiens

<400> 242						
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<210> 243
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 <213> Homo sapiens

<400> 243						
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<210> 244
 <211> 2410
 <212> DNA
 <213> Homo sapiens

<400> 244						
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aaaaaaaaaa

2410

<210> 245
<211> 2131
<212> DNA
<213> Homo sapiens

<400> 245
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<210> 246
<211> 2406
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1934)..(1934)
<223> n equals a,t,g, or c

<400> 246
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<210> 247

<211> 1491

<212> DNA

<213> Homo sapiens

<400> 247

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 <211> 571
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (249)..(249)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (548)..(548)
 <223> n equals a,t,g, or c

<400> 248						
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<210> 249
 <211> 2499
 <212> DNA
 <213> Homo sapiens

<400> 249						
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<212> DNA

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<212> DNA
<213> Homo sapiens

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<211> 2527
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<213> Homo sapiens

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<211> 978

<212> DNA

<213> Homo sapiens

<400> 254

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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 257

<211> 1739
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 259
 <211> 1677
 <212> DNA
 <213> Homo sapiens

<220>
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 <212> DNA
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<211> 1084

<212> DNA

<213> Homo sapiens

<400> 261

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<211> 1217

<212> DNA

<213> Homo sapiens

<400> 262

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<211> 2072

<212> DNA

<213> Homo sapiens

<400> 263

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<210> 264

<211> 2543

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<400> 264

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<210> 265

<211> 559

<212> DNA

<213> Homo sapiens

<400> 265

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<210> 266

<211> 1676

<212> DNA

<213> Homo sapiens

<400> 266

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<210> 267
 <211> 1747
 <212> DNA
 <213> Homo sapiens

<400> 267						
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 <211> 1251
 <212> DNA
 <213> Homo sapiens

<400> 268

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<210> 269

<211> 1539

<212> DNA

<213> Homo sapiens

<400> 269

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<210> 270

<211> 2077

<212> DNA
<213> Homo sapiens

<400> 270

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<210> 271
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<212> DNA
<213> Homo sapiens

<400> 271

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ccttttcatt aatgacccaa ccattattca agagctatgt ctagttaggg acttcagact      480
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 <212> DNA
 <213> Homo sapiens

<400> 273						
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<210> 274

<211> 1146

<212> DNA

<213> Homo sapiens

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<222> (5)..(5)

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<220>

<221> misc_feature

<222> (857)..(857)

<223> n equals a,t,g, or c

<400> 274

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<210> 275

<211> 1998

<212> DNA

<213> Homo sapiens

<400> 275

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<210> 276

<211> 777

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (278)..(278)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (295)..(295)

<223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (676)..(676)
 <223> n equals a,t,g, or c

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 gaagaatggg ccagaccatg tgtgtgtgtg tatgtgtgtg cgtgtgtgtg tgtgtgcgca 180
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<210> 277
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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
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 <222> (560)..(560)
 <223> n equals a,t,g, or c

<220>
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 <222> (589)..(589)
 <223> n equals a,t,g, or c

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 caacagctgg ggggcctcat cgttctttgc cttcctgggc accatctgct acgctggaaa 360
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 attcccagag aattgtattt aactaattaa tgttttttat atcttaaat ttgctcacia 540
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<210> 278
 <211> 970
 <212> DNA
 <213> Homo sapiens

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<400> 278
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<210> 279
<211> 1388
<212> DNA
<213> Homo sapiens

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<210> 280
<211> 649
<212> DNA
<213> Homo sapiens

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<400> 280

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acattattta	tgcttcagg	gactacagaa	agccagcttc	ctttgatcta	tgtgtaaatac	540
agtccttggc	agagtgcata	taatgtccgg	ataaattaca	cccctcgggtg	ataagattac	600
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<210> 281
 <211> 1699
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1692)..(1692)
 <223> n equals a,t,g, or c

<400> 281						
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 <211> 1782
 <212> DNA
 <213> Homo sapiens

<400> 282
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 atggcaacca agtcgtgaga gataagatta ctgagctccg tgtccagaaa ctcttgtct 480
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 gaaattgtta tttcacaggc cagggttcag ttctgctct ccactataag tctaattgtc 1740
 tgactctctc ctggtgctca ataaatatct aatcataaca gc 1782

<210> 283
 <211> 1205
 <212> DNA
 <213> Homo sapiens

<400> 283
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 tgctgggtgac cttgtcctgc ctggggactt tgggtcaggc cccgaggcaa aagcaaggaa 180
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 aggtgacttc cagctccaag ggcagcccag agcccaacca gcagcctgag gctgggacgc 540
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 aacccttcca ggccctgtgc gcctttctca tcagcttctt ccgagggtga cagggtgaaag 780

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 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 284						
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gcctcaatta	cctcctttct	tattttcttt	cctttgttga	ctctcatact	ctgttctcct	180
aattctcccc	cttttccact	ccctgcccac	cctgaaagac	acacacacac	acaataagtg	240
ggtggagtaa	gaagtcaacg	gagttggata	taagcattcc	tgcttttctg	acatctccag	300
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tttctctgtg	ttacttaagc	tttcacccca	agcatgtttg	acagagagcc	agtgcattcc	420
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<210> 285
 <211> 809
 <212> DNA
 <213> Homo sapiens

<400> 285						
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aaacattcag	gcccgcagca	gcagcagaga	gcagagagca	ctgcaaccag	acctgggcct	180
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<210> 286
 <211> 1151
 <212> DNA
 <213> Homo sapiens

<400> 286						
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<210> 287

<211> 308

<212> DNA

<213> Homo sapiens

<400> 287

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<210> 288

<211> 1303

<212> DNA

<213> Homo sapiens

<400> 288

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 <211> 4412
 <212> DNA
 <213> Homo sapiens

<400> 289
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<210> 290

<211> 1907

<212> DNA

<213> Homo sapiens

<400> 290

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<210> 291
 <211> 1476
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (69)..(69)
 <223> n equals a,t,g, or c

<400> 291						
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<210> 292
 <211> 861
 <212> DNA
 <213> Homo sapiens

<400> 292						
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<210> 293
 <211> 587
 <212> DNA
 <213> Homo sapiens

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 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (587)..(587)
 <223> n equals a,t,g, or c

<400> 293						
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<210> 294
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 294						
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gtaaagaagt	ataaaagtct	ttagcttgaa	aaaaaaaaaa	aaaaaaaaaa	aactcga	477

<210> 295
 <211> 1930

<212> DNA
<213> Homo sapiens

<400> 295

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<210> 296
<211> 791
<212> DNA
<213> Homo sapiens

<400> 296

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791

<210> 297
<211> 2425
<212> DNA
<213> Homo sapiens

<400> 297

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<210> 298
<211> 1543
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (76)..(76)

<223> n equals a,t,g, or c

<400> 298

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<210> 299

<211> 1021

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (248)..(248)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1004)..(1004)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1014)..(1014)

<223> n equals a,t,g, or c

<400> 299

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ctgcaganca	taaaatactc	aggctgatgg	tagtgacagag	actctccctc	cttgatcagc	300

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<210> 300

<211> 727

<212> DNA

<213> Homo sapiens

<400> 300

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<210> 301

<211> 2801

<212> DNA

<213> Homo sapiens

<400> 301

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<210> 302

<211> 1341

<212> DNA

<213> Homo sapiens

<400> 302

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<210> 303
 <211> 839
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<400> 303						
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<210> 304
 <211> 1022
 <212> DNA
 <213> Homo sapiens

<400> 304						
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tc						1022

<210> 305
 <211> 1028

<212> DNA
<213> Homo sapiens

<400> 305
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gcacgtag 1028

<210> 306
<211> 450
<212> DNA
<213> Homo sapiens

<400> 306
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<210> 307
<211> 531
<212> DNA
<213> Homo sapiens

<400> 307
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<210> 308
<211> 808
<212> DNA

<213> Homo sapiens

<400> 308

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ttacatatca	tgtgaatact	tacctatttc	tacccgagtt	gcagcaagta	ttctgaaagc	720
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<210> 309

<211> 1898

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1398)..(1398)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1428)..(1428)

<223> n equals a,t,g, or c

<400> 309

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tctgccttta	gatctgtctc	tatactctct	ctttgtatat	tagccactat	actctactgc	1800
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<210> 310
 <211> 813
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n equals a,t,g, or c

<400> 310						
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cttcttcaag	gtgttggtga	gcaatagagg	agtggacacg	agcacctact	gcaactacca	300
gctcaccttc	ctgctgcaca	tccacgggct	gccactcagt	cccaagcggg	cccttttcat	360
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cctgtggccc	ctcgtgggtga	agggctgcac	gatgatccgg	tggaaagataa	acaacctcat	480
tgcctcagaa	tctactaca	cctacgcctc	catttccgga	atctcgagca	tgccatctct	540
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caaggaagcc	gtggagagac	agtgtatgac	ctgagtgtcc	cacctgcccc	agcccccagt	660
tactgtcacg	cctctcttat	gaggcccatc	ttgaagatgc	aacctgtcac	ccagcccagg	720
cctctctttc	tgttttgctt	gatgtttact	tctcgttcag	actcaaataa	agcctttttt	780
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<210> 311
 <211> 703
 <212> DNA
 <213> Homo sapiens

<400> 311						
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gtggtatcct	ggcggccttg	ctcctgctga	tagttgtcgt	gctctgtctt	tacttaaaa	360
tacacaacgc	gctaaaagct	gcaaaggaac	ctgaagctgt	ggctgtaaaa	aatcacaacc	420
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agcaataactt	cttagtagat	tgttttgtta	ttcaaatcaa	gttctagtgt	ttttatgtga	660
gattatataa	tttacagtgt	tgttttatat	acttttgaat	aaa		703

<210> 312
 <211> 848

<212> DNA
<213> Homo sapiens

<400> 312
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actgggtccc tgggggtgga tattgcttat attagactta gaatagcata ctgtttta 180
attatatgaa ctaaaatgtt tcttttaaaaa aagagtgggtc tgtaaatgga tttatgtagt 240
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ctaattgtga gatgtcaagc aagtttttga actcctctaa gcctctgttt tcttatctat 360
aaattaataa atgaatgaat cgggttgagt gaatatttag taaattcttagtacatacta 420
gttatttgta actgtgagac tgggtttttg gtatggtttt cacatttggg agtagaaata 480
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gctagcactt cggagggtg aggcggggcg atcacttgag gtcaggagtt ggagaccagc 660
ctggcaaaaca tggcgaaacc ctgtctctac taaaaataca aaaattagct ggatgtggtg 720
gcaggtgtct gtaatcccag ctacttagga ggctgagaca ggagaactcc ttgagaattg 780
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aaaaaaaaa 848

<210> 313
<211> 1061
<212> DNA
<213> Homo sapiens

<400> 313
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cctgtactca gagccctggc tgcttcctgc ctggcctctc ctgcgggctg ctgtggaacc 180
agaaaagcct taaacggaaa tgtgggagag aaggttggat tcactttcat gtctttccag 240
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ctcgtcttta tttctttttt agttttgtcg gggttggctt gatagatgtt agtccatcat 360
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tgggggtggtc tgtgaatcac agtttgggag acattgactt ttagggagtt tgttctgaat 600
tcactagata atagagatat aatacagagc tttgaaagct ggtgtcttga tgacagagcc 660
gtggcaatgg ggagggttga ggaggtggct gttgggctg tctcctggtg agagttgaaa 720
gggcctgaac tcaagcagag gcctcagaac cgaaaaggtg tggaaggatg cagcaaggag 780
cgccacacag gactactctg cgccctggca gggctgaat acacgtggga gtggtagagag 840
ggagaacttt aagtccaggt tttgtgcctc agtgacttag tgtggccata tcattagaaa 900
tgtgttgagg ccgggcacag tggctcatgt ctgtaatccc agcactttga gaggctgagg 960
caggaggatg gcttgaggcc aggagtttaa aaccagcctg gacaacatag tgagagcctg 1020
tctctacaaa aaaaaaaaaa aaaaactcga gggggggccc g 1061

<210> 314
<211> 818
<212> DNA
<213> Homo sapiens

<400> 314
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gcagttttga gagccctgtt tctgccttgt atcattttcc actgtgtatc kgattctagg 180
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cagaaagatc cggatcctga gtttccaaca gtgaaatacc cgaatcccga agaggggaaa 360

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agcatggaaa	tatgtatgtt	tggctgggtg	cagcgtctca	tgtctgtaat	cccagcactt	540
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tggcaaaacc	ctgtctctac	taaaaataca	aaaattagct	gggtgtggtg	gtacatgcct	660
gtaatcccag	ccacttgagg	ggctgaggca	ctagaattgt	ttgaacctga	gagatggagg	720
ttgcagtgag	ctgagattgc	accactgcac	tccagcctgg	gtgacagggg	gacagagcga	780
gactctgtct	caaaaaaaaa	aaaaaaaaaa	aactcgag			818

<210> 315
 <211> 534
 <212> DNA
 <213> Homo sapiens

<400> 315						
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ggggcgcct	cctcaccggc	ctggcctgcg	gtgttgcttc	cctagtggcc	ccggtgagtg	120
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tccacagcta	gtcagagggg	aagcagttgc	aggaaccag	ggttgctcca	cttagccgtg	420
cccytctttt	gctctgcaaa	ctgcggatga	tccacaggag	cccactccct	acattttggt	480
tttcatccct	ggcttcgggg	tcaatgactg	caattagcag	gaagttcctg	tcct	534

<210> 316
 <211> 1032
 <212> DNA
 <213> Homo sapiens

<400> 316						
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<210> 317
 <211> 978
 <212> DNA
 <213> Homo sapiens

<400> 317						
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<210> 318
 <211> 1466
 <212> DNA
 <213> Homo sapiens

<400> 318						
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<210> 319
 <211> 1430
 <212> DNA
 <213> Homo sapiens

<400> 319						
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ctaaggtacc	aggctgaagt	cagtgtctcag	aaaaccaatc	gtcatttcttt	gggggtttttt	240
ttcttgaaga	gccactttct	ctttaccttg	ttctagcctg	ttggaggtag	ggtttctgca	300
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acctagctcg	aagatttact	tcctcaggaa	gccatttttag	ttacaaatct	gggaaaactt	420
aaaatgcttt	cattgtgcca	tgttttctgt	tgcagcttca	gtaccgtacc	tagtggtcag	480
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 327

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cggggactac atatgtttca caaccaaaga tatccacttg aaataaaaaac attataaaagt 2040
taaaaaaaaa aaaaaaaaa 2058
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<210> 328

<211> 963

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2)..(2)

<223> n equals a,t,g, or c

<400> 328

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gatctcccta gaggcagctg aagaggagaa gtcccgcatc agcctcatcc caccagaaga 240
acggtggtaa gcggccaggc tccgtggrag ccaggggcca magcccttg ccagktkgtg 300
gaaacagctg ctgggatggg tatgcccctt gtcactgtca cagctgccac cttccctact 360
ctctcatgtc ctcttagggc ctggcctgag gtggaggcgc cagaagctcc tgcattgccc 420
gtggtgacct aactccctga ggtgcccatg gagatgcctt tgggtctgcc cccagagctc 480
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agg						963

<210> 329
 <211> 1134
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1134)..(1134)
 <223> n equals a,t,g, or c

<400> 329						
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<210> 330
 <211> 1991
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (300)..(300)
 <223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (353)..(353)
 <223> n equals a,t,g, or c

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<210> 331
 <211> 2398
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1874)..(1874)
 <223> n equals a,t,g, or c

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<400> 331
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gttttgccac ctttcaatct gtggttaaca atgacaagaa ggggtgcaatt cttccttccc 180
ttgtgcaggg attttgctc cccctttctc ccagatgaaa gatatttggg tctctagaat 240
aactgtggta cagttagctc cagagtgttt tctttctgga ggcagtttag acaacagcct 300
caagtagtgc ttttgtaaaa aatatacatg tttttaaaag tgcttgattt tctaataattc 360
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<210> 332
 <211> 1505
 <212> DNA
 <213> Homo sapiens

<400> 332						
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ttccgaggat	gtacagcgct	ggagctcggg	gccggcacg	ggctcactag	catcatcgca	240
gccaccatgg	cacggaccgt	ttattgtaca	ggtaatgagg	tgacatctca	ggctgcaggg	300
aagtagtcac	cttcacaaaag	catgcaactga	ctgtataaaa	aaagaggcag	aggcaatgga	360
aattggatgt	tagctgctgt	tgattttgcc	atcctgggtc	cctggccctc	tccactctcc	420
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tcgag						1505

<210> 333
 <211> 1193
 <212> DNA
 <213> Homo sapiens

<400> 333						
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<210> 334
 <211> 868
 <212> DNA
 <213> Homo sapiens

<400> 334						
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<210> 335
 <211> 853
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (75)..(75)
 <223> n equals a,t,g, or c

<400> 335
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<210> 341
 <211> 1317
 <212> DNA
 <213> Homo sapiens

<400> 341						
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<210> 342
 <211> 1677
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (537)..(537)
 <223> n equals a,t,g, or c

<400> 342						
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ctcatcatca	tgaaatctaa	tttgtctgat	attattatag	ccacttatac	ttactgtata	360
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caagaatcat	caatggatgc	taaagtttgt	gagaaaaagt	ttgatgagaa	atgggctatt	960
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ttaaactctga	aattctttta	aaatgagaag	ttggctgggc	acagtggctc	acacctgtaa	1560
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<210> 343
 <211> 1604
 <212> DNA
 <213> Homo sapiens

<400> 343
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 attatgggag caaaatcttc agcttctggg ttcctgtctc actgaggaaa tggatttgaa 240
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 ctatttcctt tggactttgt ataaacaagg aaaggacagt tgttagttca gttattacag 360
 ataacctgtg tctttaaagt aaatgtatct taaataagta ggactcccat aaatgactac 420
 actttttcaa aatatgactc cccagcttat aacaagaata atagcaaaca tcactttatt 480
 aagcaattac tatgtaaaag acacttagtg cttagcacac actggaaha ttgttgactg 540
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 gtataacaaa ggagtgtgtg tgtgtgtggg tgtgagtgtg tgtgggtgtg agtgtgtggg 660
 ggggtgtgagt gtgtgtgggt gtgagagtgt gtgtgtgagt gtgagtgtgt gtgtgtgtaa 720
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 ctggtgacag agtgagagtc tttctcaaaa aaaaaaaaaa aaaa 1604

<210> 344
 <211> 1699
 <212> DNA
 <213> Homo sapiens

<400> 344
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 ccctggagtgc ctacagctgc gtgcagaaaag cagatgacgg atgctccccg aacaagatga 180
 agacagtga gtgcgcgccg ggcgtggacg tctgcaccga ggccgtgggg gcggtggaga 240
 ccatccacgg acaattctcg ctggcagtgc ggggttgctg ttcgggactc cccggcaaga 300
 atgaccgcgg cctggatctt cacgggcttc tggcgctcat ccagctgcag caatgcgctc 360
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 agagtgcata cccgcccac ggctggagt gctacagctg tgtgggctg agccgggagg 480
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 agggctgctt cgacggcaac gtcaccttga cggcagctaa tgtgactgtg tccttgccctg 600
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 cctcaaccac atctgtcacc acttctacct cgccccagt gagaccaca tccaccacca 840
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<211> 801
 <212> DNA
 <213> Homo sapiens

<400> 346
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 aaaggagatg caggcatggc tctctgcctc tgatcaccat cactgtatct caaggttcag 600
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 tctcccaggg ccagagacag cagaccaca tcttctctc ccacacctct cctggttttg 720
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 aacaaaaaaa aaaaaaaaaa a 801

<210> 347
 <211> 1094
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<400> 347
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 tatcattcca gttgaaagt ttgcttccttc cgtcatgtg gctcttcatt ctactctcct 180
 tggctctcat ttcagatgcc atggtcatgg atgaaaagg caagagaagc tttgtgctgg 240
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 ccatcagtca gaagtgaaga agaggtggag aatctggatt ggggaccagg aaatcacttg 1080
 tattttgtta gcc 1094

<210> 348
 <211> 2709
 <212> DNA
 <213> Homo sapiens

<400> 348

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aaaaaaaa						2709

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<211> 813

<212> DNA

<213> Homo sapiens

<400> 349

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<210> 350
 <211> 2288
 <212> DNA
 <213> Homo sapiens

<400> 350						
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<210> 356
 <211> 943
 <212> DNA
 <213> Homo sapiens

<400> 356						
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cgaggggtctc	acgtcgtggg	cttgctgacc	accttgaact	tcggagacgg	tccagacagg	360
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<210> 357
 <211> 1566
 <212> DNA
 <213> Homo sapiens

<400> 357						
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aaaaaa						1566

<210> 358
 <211> 1067
 <212> DNA
 <213> Homo sapiens

<400> 358						
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<210> 359
 <211> 1021
 <212> DNA
 <213> Homo sapiens

<400> 359						
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a						1021

<210> 360
 <211> 1086

<212> DNA
 <213> Homo sapiens

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<400> 360
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atggtgaccg aggacttgtg ccgagcacca gacgggaaga aaggggagggc aggaagacct      180
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cggacaggca tccaaggcct taaaggagac cagggggaac ctgggccctc tggaacccc      300
ggcaagggtg gctaccaggg gccagcggc cctcggag cccgtggcat cccgggaatt      360
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caggaagaac cgtaccagaa ccactccggc cgattcgtct gcaactgtacc cggctactac      480
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aaaaaaaaaa aaaaaaaaaa aaaaaactcg agggggggcc cgggtaccaa ttcgccgtat      1080
aatgag
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<210> 361
 <211> 2078
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1177)..(1177)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1187)..(1187)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2057)..(2057)
 <223> n equals a,t,g, or c

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<400> 361
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tggtggatgt gaagaaaaca gcattggcct tggccattta cagactcaga gctgtcagat      480
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<210> 362

<211> 2494

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (920)..(920)

<223> n equals a,t,g, or c

<400> 362

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acgtgaaaaa	aaaaaaaaaa	aaaaaaaaac	tcga			2494

<210> 363
 <211> 807
 <212> DNA
 <213> Homo sapiens

<400> 363						
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<210> 364
 <211> 845
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (4)..(5)
 <223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (823)..(823)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (845)..(845)
<223> n equals a,t,g, or c

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<400> 364
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<211> 738
<212> DNA
<213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
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<400> 365

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 <222> (9)..(9)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (410)..(410)
 <223> n equals a,t,g, or c

<400> 366

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<210> 367
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 <212> DNA
 <213> Homo sapiens

<400> 367						
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<210> 368

<211> 1651

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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<212> DNA

<213> Homo sapiens

<400> 370

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 <213> Homo sapiens

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<211> 2921

<212> DNA

<213> Homo sapiens

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tggaaagtaat	tcgtctagga	cacagttatt	ttataaactg	ggaccggaag	atgtattaty	420
ctcgaaaagc	aatacctgca	gtggctgaa	cgaccacgct	caatgagg		468

<210> 376
 <211> 181
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (178)..(178)

<223> n equals a,t,g, or c

<400> 376

ggtcagtgtg	cagatagcct	tggataccag	ktactggact	ttcattaatc	acgtcttcat	60
ctgggggagc	attgccattt	atttctccat	tttatttaca	atgcacagta	atggcatctt	120
tggcatcttc	ccaaaccagt	ttccatttgt	tggtaatgca	cgacattccc	tgacccanaa	180
g						181

<210> 377

<211> 612

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (47)..(47)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (534)..(534)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (537)..(537)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (563)..(563)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (565)..(565)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (591)..(591)

<223> n equals a,t,g, or c

<400> 377

cagtctgggc	ttaagaaacc	accagaagaa	cccaaaccag	aaatgcncaa	gtgtaaattgc	60
aaaaattctt	atagaagaaa	tagcataaga	atttgcacat	tcggaaataa	gaccaccttc	120
catgaacaag	gagaagcctt	tggagatata	taaactgtgc	aaatgaatag	tcgctggcta	180
agactgcttg	caatccttcc	tggccgctga	tgccaacaccaat	gtgagca	cttttaataca	240
tgctgacatc	attggctcca	tcwccaatgg	ccaaagtaac	agcatttctg	tacttcttca	300
ccagctctac	cacttgggct	ttctggagtg	gagtgaccct	gcagcaaatt	acagtcttac	360
acatgcaagc	aagttctagg	agatcattct	tgacatcact	ttctagggca	tgagccaaac	420
tgtggccatt	tatgattaag	gcataatctc	ctgttatggt	ttcttctaca	atagaatcca	480

actccagctg	ctgctttttt	tcacaaacta	catggccatt	ggaaaaattt	ctgnttngtc	540
caaacaaatt	ttgttttgaa	atnangagtt	cttctctcac	ttccacagca	nttattccct	600
gctataggga	gg					612

<210> 378
 <211> 1024
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (29)..(29)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (986)..(986)
 <223> n equals a,t,g, or c

<400> 378						
tgcttttctg	agttctttct	tcacttccnc	agcattattc	cctgctatcc	caaacmcatc	60
attcatgtcg	tcagtcagca	tgttgcaggc	ataaccgatg	ttgatgscag	tttcttggtt	120
gtctcctgtt	aggaccaga	tcttaatat	ggctagtgat	aaacttgtaa	ctgtttcaat	180
aacaccctcc	tgtaacttat	cttctacagc	agtggcacct	agtagcatca	aatctctttc	240
aattttcttca	tatagcccag	ctattcggtc	atccctctct	tctgtggcaa	cattcgcatc	300
ttcaagcatc	ttatgccact	ctttaaagta	cttgatcatc	aggtctctgt	atgcgatggc	360
caaggtccga	aggccttccc	ctgcaaattc	actgaggtgg	tctgacgtca	aagacaaaag	420
gacttcattg	gaaggatsaa	gtttctcaaa	cagaatagta	tctgctcctt	tggaaataaag	480
ctttatctgt	ccttctgggt	ttcgartat	gacagacatc	ctttttctgg	tggtgttgaa	540
atccaaaaag	gcaagtaatt	gataagtaac	tagtgttccc	aattcttcta	ttgttatggt	600
ctctggggtc	cgggatttaa	aratgaccc	aaaatttcta	gcggcagtca	ctagagcccc	660
ttcatcaggt	gactgaactt	ggtaaatacag	ctctcctgcg	ctattctctt	ctgacattac	720
agtgtggcag	agagcaagta	acctaaggaa	ttcatgaact	ttgggatcac	ccattttaat	780
ggattccatc	agattgtggt	caaagaactg	aaattctcta	tccgcttgag	atttgatga	840
gaaatccaca	ggctcttttt	cctgagttat	ttctgtcttc	tgatccaggt	catcatgtac	900
ttcaccatag	attctcccat	taatggaaca	tcttttaaaag	gtcatgatgt	tttgagttag	960
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cggt						1024

<210> 379
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 379						
gacgcgtggg	agctcattat	ccatcaaact	cactcargtg	wcacytgagt	gagtttgatg	60
gataatgagc	taatgtgata	tctataggtc	acaatttttt	aaaaccaaaa	ttttcagtc	120
tgggataatc	tttcttaaat	gggatcaaat	gaaataatat	gtgtaaaaga	gtcaaagtca	180
gtcctttacc	atagtaactg	cctatggacg	ttgtctttcc	cttacatgcc	tgccacact	240
taaccagatg	ttggttttca	agtctaattk	gtcattagtt	tcaccacatt	kgctcacttt	300
tkgtaacatt	tttgcaagat	ttgaaaactt	tcagtaaatg	ttttggcact	attggtaaaa	360
aaaaaa						366

<210> 380
 <211> 519
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (371)..(371)
 <223> n equals a,t,g, or c

<400> 380
 cctggttagg gtcctacagg gaaataaaaat tataaccgtg gaggtacatt tctctaccag 60
 aaagcaaaaa taaagcatca tgtcttaatg gttttctaca aatcaacttc taattctaca 120
 gagtccttaa tctgggccct attaaattct tggtcagaca aagttacatt tcccaagaga 180
 gtcaggtgac acttgagtga gtttgatgga taatgagcta atgtgatatc tatagggtcac 240
 aatttttttaa aacaaaaatt ttcaagtctg ggataatctt tcctaaatgg gatcaaatga 300
 aataatatgt gtaaaagagt caaatgcagt cttttaccat agtaactgcc tatggacgtt 360
 gtctttccct nacatgcctg cctacactta accagatggt ggttttcat gtctaatttg 420
 tcattagttt caccacattt gctcactttt tgtaacattt ttgcaagatt tgaaaaacttt 480
 cagtaaatgt tttggcacta ttggtaaaaa aaaaaaaaaa 519

<210> 381
 <211> 1867
 <212> DNA
 <213> Homo sapiens

<400> 381
 cccacgcgtc cgggccaacag cagagacagt ggagggcagt ggagaggacc gcgctgtcct 60
 gctgtcacca agagctggag acaccatctc ccaccgagag tcatggcccc attggccctg 120
 cacctcctcg tctcgtcccc catcctcctc agcctggtgg cctcccagga ctggaaggct 180
 gaacgcagcc aagaccctt cgagaaatgc atgcaggatc ctgactaga gcagctgtc 240
 aaggtggtga cctgggggct caatcggacc ctgaagcccc agaggggtgat tgtggttggc 300
 gctggtgtgg ccgggctggt ggccgccaag gtgctcagcg atgctggaca caaggtcacc 360
 atcctggagg cagataacag gatcgggggc cgcattctca cctaccggga ccagaacacg 420
 ggctggattg ggagctggg agccatgcgc atgccagct ctcacaggat cctccacaag 480
 ctctgccagg gcctggggct caacctgacc aagttcacc agtacgacaa gaacacgtgg 540
 acggaggtgc acgaagtga gctgcgcaac tatgtggtgg agaaggtgcc cgagaagctg 600
 ggctacgcct tgcgtcccca ggaaaagggc cactcgcccc agacatcta ccagatggct 660
 ctcaaccagg ccctcaaaga cctcaaggca ctgggctgca gaaaggcgat gaagaagttt 720
 gaaaggcaca cgctcttgga atatcttctc ggggagggga acctgagccg gccggccgtg 780
 cagcttcttg gagacgtgat gtccgaggat ggcttcttct atctcagctt gccgaggcc 840
 ctccgggccc acagctgcct cagcgacaga ctccagtaca gccgcatcgt ggggtgctgg 900
 gacctgctgc cgcgcgcgct gctgagctcg ctgtccgggc ttgtgctgtt gaacgcgccc 960
 gtggtggcga tgaccagggt accgcacgat gtgcacgtgc agatcgagac ctctcccccg 1020
 gcgcggaatc tgaaggtgct gaaggccgac gtggtgtgc tgacggcgag cggaccggcg 1080
 gtgaagcgca tcaccttctc gccgcgcgtg ccccgccaca tgcaggaggc gctgcggagg 1140
 ctgcaactac tgccggccac caaggtgttc ctaagcttcc gcaggccctt ctggcgcgag 1200
 gagcacattg aaggcgccca ctcaaacacc gatcgcccgt cgcgcatgat tttctaccg 1260
 ccgcgcgcgc agggcgcgct gctgctggcc tcgtacacgt ggtcggacgc ggcggcagcg 1320
 ttgcgcggtc tgagccggga agaggcgttg cgcttgccgc tcgacgacgt ggcggcattg 1380
 cacgggcctg tcgtgcgcca gctctgggac ggcaccggcg tcgtcaagcg ttgggcggag 1440
 gaccagcaca gccagggtgg ctttgtggtg cagccgcccg cgctctggca aaccgaaaag 1500
 gatgactgga cggtcctta tggccgcac tactttgccg gcgagcacac cgcctaccg 1560
 cacggctggg tggagacggc ggtcaagttg ctgcgcgccg ccatcaagat caacagccg 1620
 aaggggcctg catcgacac ggccagcccc gaggggcacg catctgacat ggaggggacg 1680
 gggcatgtgc atgggtggc cagcagcccc tcgcatgacc tggcaaagga agaaggcagc 1740
 caccctccag tccaaggcca gttatctctc caaaacacga cccacacgag gacctcgcat 1800
 taaagtattt tcggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
 aaaaaaa 1867

<210> 382

<211> 1722
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (401)..(401)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (695)..(695)
 <223> n equals a,t,g, or c

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<400> 382
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ggccccattg gccctgcacc tcctcgtcct cgtcccccac ctctcagcc tgggtggcctc      120
ccaggactgg aaggctgaac gcagccaaga ccccttcgag aaatgcatgc aggatcctga      180
ctatgagcag ctgctcaagg tcaccatcct ggaggcagat aacaggatcg ggggccgcat      240
cttcacctac cgggaccaga wyacgggctg gattggggag ctgggagcca tgcgcatgcc      300
cagctctcac aggatcctcc acaagctctg ccagggcctg gggctcaacc tgaccaagtt      360
caccagtac gacaagaaca cgtggacgga ggtgcacgaa ntgaagctgcgcaactatgt      420
ggtggagaag gtgcccagaga agctgggcta cgccttgctg cccagggaaa agggccactc      480
gcccgaagac atctaccaga tggctctcaa ccaggccctc aaagacctca aggcactggg      540
ctgcagaaag gcgatgaaga agtttgaaag gcacacgctc ttggaatata ttctcgggga      600
ggggaacctg agcgggccg cctgtgcagct tctgggagac gtgatgtccg aggatggctt      660
cttctatctc agcttcgccg aggcctccg ggccnacagc tgcctcagcg acagactcca      720
gtacagccgc atcgtgggtg gctgggacct gctgccgcgc gcgctgctga gctcgtctc      780
cgggcttctg ctgttgaacg cggccgtggg ggcgatgacc caggaccgc acgatgtgca      840
cgtgcagatc gagacctctc ccccggcgcg gaatctgaag gtgctgaagg ccgacgtggt      900
gctgctgacg gcgagcggac cggcggtgaa gcgcacacc ttctcgccgc gctgccccgc      960
cacatgcagg aggcgctgcg gaggtgcac tacgtgccg ccaccaaggt gttcctaagc     1020
ttccgcaggc ctttctggcg cgaggagcac attgaaggcg gccactcaa caccgatcgc     1080
ccgtcgcgca tgattttcta cccgccgcgc cgcgaggcg cgctgctgct ggcctcgtac     1140
acgtggtcgc acgcggcggc agcgttcgcc ggcttgagcc gggaagaggc gttgcgcttg     1200
gcgctcgacg acgtggcggc attgcacggg cctgtcgtg gccagctctg ggacggcacc     1260
ggcgctcgtca agcgttgggc ggaggaccag cacagccagg gtggctttgt ggtacagmcg     1320
ccggcgctct ggcaaaccga aaaggatgac tggacggtcc cttatggccg catctacttt     1380
gccggcgagc acaccgccta cccgcacggc tgggtggaga cggcggtcaa gtcggcgctg     1440
cgcgccgcca tcaagatcaa cagccggaag gggcctgcat cggacacggc cagccccgag     1500
gggcacgcat ctgacatgga ggggcagggg catgtgcatg ggggtggccag cagcccctcg     1560
catgacctgg caaaggaaga aggcagccac cctccagtc aaggccagtt atctctccaa     1620
aacacgaccc acacgaggac ctgcgattaa agtattttcg gaaaaaaaaa aaaaaaaaaa     1680
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggcgcg cc                          1722
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<210> 383
 <211> 2042
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2001)..(2001)
 <223> n equals a,t,g, or c

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<400> 383
ggtcagcttt catctcgtcc tatctttggt caggcaaact tctctagttc tgttttaata      60
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ggcatattttg	ttaggtctgt	tttttgaaat	cctctttttt	acattgttta	aagataatgc	120
cttggctaaa	aagcctgctt	cactttttcc	tgtttttagt	tgtttttctc	acattggcag	180
taaagagcct	tggcgtccca	gtagcagag	gttctccttt	ttgtattgtg	gatgttttgc	240
atttcatact	gttgtgaaga	gtggctttga	tcatacatgt	tgttggtata	tttgccyttt	300
tgctgggggt	gtgagaagaa	ccagagatga	gcagaggtac	accagtaga	cttcccagcc	360
tgcagagcct	cccgggaaga	gcttccgtgt	tcaggtgctt	ggggcccccw	cctaggagc	420
tgwctcwag	tcagagcwgg	gtcccggctt	gygttcagga	ttttgaaaca	tttgtawggt	480
gattttgttg	tttctacacc	tttctcctca	tctttttttt	ttttagtata	atcgttacta	540
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tgacttttga	ggcttttcaa	attcgagtgt	ccataaaatc	catccagagc	cacctgggtc	660
ctttttttga	accacttaac	gtaattctgg	aaaaccttga	ctgtgggtct	taagtttggg	720
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cctgcatcat	ggtggtcaac	catgatgcct	ccagcatacc	caggctccag	atagatgtgg	960
acggcaggaa	agagatcctc	ttctatgata	gaattttatg	tgatgtccct	tgcagtggag	1020
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ctttactgga	aaaaagtga	ggtgcttttg	agcttgctga	tgtgtctat	gaactgccag	1260
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ttacagactg	ggacgctggt	cctcacagca	gacacaccca	gatccgacct	accatgttcc	1380
ctccgaagga	cccagaaaag	ctgcaggcca	tgcacctgga	gcatgcctt	aggatattac	1440
cccatcatca	gaatactgga	gggttttttg	tggcagtatt	ggtgaaaaaa	tcttcaatgc	1500
cgtggaataa	acgtcagcca	aagcttcagg	gtaaatctgc	agagaccaga	gaaagcacac	1560
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cgtcattcac	aggaactggt	gacacagaaa	tagctcatgc	aetgaggat	ttagagaata	1680
atggcagtaa	gaaagatggc	gtgtgtgggc	ctcctccatc	aaagaaaatg	aagttatttg	1740
gatttaaaga	agatccattt	gtattttatt	ctgaagatga	cccattattt	ccacctattg	1800
agtaaggatt	cagccttttt	aattattcat	ttaaagaaat	ttactataga	gtatcaaagt	1860
tacaactgat	cacatgtaac	cattgttttg	tatgtagtgc	tgtctagctt	tttttttttt	1920
ttaacctttt	taactgcata	ttagagcagg	atgaaacttt	agaggttact	caatctttta	1980
atttaaggag	aaagtaaaca	nttactttgt	gaacatgata	gataaaaaaa	aactggaccg	2040
gg						2042

<210> 384
 <211> 308
 <212> DNA
 <213> Homo sapiens

ggaggcagga	ccttgtccta	ttcattaatc	ttgcccctca	acagttattt	tcagaggggc	60
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ggtcattgtt	gttrtaatct	ggggttacct	tttggaagg	catgggggtac	ccttttgcaa	180
aagttatggg	ccctmtcctt	ggaaactgca	cacacaccat	gcagcttaca	attcaggag	240
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cagtggga						308

<210> 385
 <211> 1568
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1550)..(1550)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1564)..(1564)
 <223> n equals a,t,g, or c

<400> 385
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 tttgttttgt tttccagatg agagaatcat tgctcacaga agtgaagtaa cttttccaag 120
 gtcatacaat cagtaagtgg caggcaagga ctgaaatcca agttgttacc ctccaaagtc 180
 cctgctctga gaactggagg aattcttatt caaatctaaa atcctctttt agscctgtct 240
 gctttaatat tccggctctt attgatcctt ctcttctcta aamcttcagc tgtcagtata 300
 aaaatcaagg aatttagcmc ttgttattgt gtgamcagct tcttgtctct cctgtactgt 360
 aagtgggtct agggattttt attctttaaa tatccccctg tactcagtag atctttgga 420
 gamcaagctc ataggcttct aataattctt tctttgactg ccagctgaat tagacagaag 480
 gtaagtccct ctgccgtgct gtgcctaacc ccattcttat ttcctgtgct gttagagaac 540
 agtcttttct tggctggaac aaatactaca gcctgctcaa ctagctaata tgtattgagt 600
 tcttartatg ttccaaggac tgccttaagt attttatata tattaactca ctgaatctta 660
 aataccctat gagctaagtc ctatttttat cccattttta caaaagagga aactgaatgt 720
 accagtgcac cagtatttga ctgagtaa atgaatgactg tttgctgatg gatagtatta 780
 ttagcaacaa cctacaaat atgatgttat gtttgcatca tgcagtacag cttatgtac 840
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 ggaamccatg gctctaagag ggtgagtgat tctcaacagt cacatgccat ctgtatcctt 960
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 gtgagaaaca ctcatattca caaaaggtag tagatagata gacagataaa taaataaata 1080
 gagataaaag ctagtaatat cagagatttg atgggaattc agatctttga ttcctagtcc 1140
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 gctttgattt aggatcttaa gccagaagca gcagcgccct aaacaaaag catcatttta 1260
 acttctctgc atttctcaca ttctcaacaa tgaccatgcc ctactttcat aattaaaaac 1320
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 attcttgggt ttgctctggg atgtctttgg gccctgcac ttgtgggcac tctgatttat 1440
 cccacagggc cacctggccc accttatggg ctgaggaggg cttgatgggc ggaggsaagc 1500
 agagctgagg agctggggag gagctggaaa ggactgctag aaggttccan tgaagctaca 1560
 atgngtag 1568

<210> 386
 <211> 865
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n equals a,t,g, or c

<400> 386
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 cagytccact aattttgaag tttttkggt agacatgaag tctccctgtg ttgcccgggc 120
 tggctcctaaa ctctgacct caagcagtc tctgtcttg gcctctggaa atgctgggat 180
 tacaggcgtg agccactgtg ctggcctctt ttttcttttt cttttttttt aagggtttta 240
 tttgttaaat gggaagtctg tgccatcaac tgagcattgtattttctct tagtaagagc 300
 ctgggtgggc cactgggaga gaactataca ttaaattgtaa gtagcctctg ggtagagagc 360

ccctggctgg	tttcctttcc	tttctctcct	tttctctact	ttgggtgtctg	gaggcatttc	420
ccagactcca	gtttcttacc	accctcacgg	atTTtgctat	tgtattatca	cctcctttat	480
cattcccaaa	attgacttta	tggagactca	ttaaaagaaa	gaatcatcgg	ccgggagcgt	540
kgctcacgcc	acgaaggcgg	gcgaatcacc	tgaggtgcgg	agttcgtgac	cagcctgacc	600
aaaacagaga	aaccccatct	ctactaaaca	atacaaaatt	agctgggcgt	ggtggtgcac	660
gcctgtaatc	ccagctactg	gggaggctgg	gacggagaa	tcacttgaac	ccgggaggca	720
gaggttgag	tgaccaaaga	tgcactatt	gcactccagc	ctgggcaaca	agagcaaac	780
tctatctcaa	aaaaaaaaaa	aaaaaaaaaa	aaaagggcgg	ccgctctaga	ggatccctcg	840
aggggcccac	gcttaggcgt	gcatg				86

<210> 387
 <211> 1687
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1568)..(1568)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1652)..(1652)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1654)..(1654)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1660)..(1661)
 <223> n equals a,t,g, or c

<400> 387						
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gggcatggag	ggggcctggt	gtggctgagg	gcatgcccag	ggctccctgg	aggatcccgc	180
tctgtgccct	gcccaccctg	tgccctgggga	gccctctgcc	ctcacagccc	accaccccca	240
ttttctatga	ccacagagct	ccgacctgga	agatggctca	cccaggaggt	cccaggagct	300
ctcactcccc	caggggacct	ggaggacacc	cagctctcag	acaaaggctg	ccttgccggc	360
ggggggagcc	cgaacagcc	ctttgcagct	ctgcaccagg	agcaggtttt	gcggaacccc	420
catgtaaggc	ttccccgggg	tggggtcctc	ccagccgtgg	gcctcagggt	gaccgatcac	480
agggagagt	gtcctctgcc	ctgggcaccc	cctgcggtgg	ccccgacgac	agctgaggag	540
tgaccacaag	gtctctgccc	acagtgtctg	gggtgcgtg	tctgggctgc	gaagtggatc	600
cccctccttt	cttgggcact	gcagcagctt	ggggggcttt	ttggacgtgg	atgtgcctgg	660
tcttggtttc	ccgagggcct	ttacagtgga	tgaggaggtg	aacacaggga	gtcctgagag	720
caagcaccac	ctcgggcttt	ggtgtagaaa	caatggccc	gacccagggc	cggagccgtg	780
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cctgcctctc	caaccagtct	gcagttacag	gggcagtg	atgggcgggt	gagaaggacg	960
ggttccctca	ccggagcccg	ccggagcccg	agccttcccc	cttctccagg	acgcaggcct	1020
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cagctgcgta	aataaacagc	acgggtgacc	cgcaaaaaaaaa	aaaaaaaaaaaa	aaaaaaaaaaaa	1560
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aaaaaaaaaa						1687

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<220>
<221> misc_feature
<222> (5)..(5)
<223> n equals a,t,g, or c
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<220>  
<221> misc_feature  
<222> (16)..(16)  
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (496)..(496)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc_feature
<222> (523)..(523)
<223> n equals a,t,g, or c
```

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<220>  
<221> misc_feature  
<222> (531)..(531)  
<223> n equals a,t,g, or c
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<400>	388						
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cacgcgtccg	ggcagtg	tgagggcaca	caagcagttc	aggggtcccag	caggaagtgg		120
ggctgcaggg	ccgggggtgg	tcttgggcct	ggccatcagg	cagcctagca	ggttggtctg		180
ggcatggagg	gggcctggtg	tggctgaggg	catgcccagg	gctccctgga	ggatcccgc		240
ctgtgccctg	cccaccctgt	gcctggggag	ccctctgccc	tcacagcca	cccaccccat		300
ttwctatgac	cacagagctc	cgacctggaa	gatggctcac	ccaggaggtc	ccaggagctc		360
tcaactcccc	aggacctgga	rgacacccag	ctctcagaca	aargctgcct	tgccggcg		420
gggagcccga	aacagccctt	tgcagctctg	caccaggagc	aggttttg	gaacccccat		480
gtaaggcttc	cccgngtgg	ggtctctccag	ccgtgggcct	canggtgacc	natcacaggg		540
aaagtggctc	cctgtcctgg	gcacccccctg					570

<220>

<221> misc_feature
 <222> (1099)..(1099)
 <223> n equals a,t,g, or c

<400> 389
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 attccagccc ctgccaccca cagacacggg ctgactgggg tgtctgcccc ccttgggggg 180
 gggcagcaca gggcctcagg cctgggtgcc acctggcacc tagaagatgc ctgtgccctg 240
 gttcttgctg tccttggcac tgggcggaag cccagtgggc ctttctctgg agaggcttgt 300
 ggggcctcag gacgtaccc actgctctcc gggcctctcc tgccgcctct gggacagtga 360
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 cctgcagaca gagctggtgc tgaggtgcca gaaggagacc gactgtgacc tctgtctgcg 480
 tgtggmtgtc cacttggccg tgcatgggca ctgggaagag cctgaagatg aggaaaagt 540
 tggaggagca gctgacttag ggggtggagga gcctaggaat gcctctctcc aggcccaagt 600
 cgtgctctcc ttccaggcct accctactgc ccgctgcgtc ctgctggagg tgcaagtgcc 660
 tgcctgcctt gtcagtttg gtcagtctgt gggctctgtg gtatatgact gcttcgaggc 720
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 caaccacaca cagcagctgc ctgactgcag ggggctcgaa gtctggaaca gcatcccag 840
 ctgctggggc ctgccctggc tcaacgtgtc agcagatggt gacaacgtgc atctggttct 900
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 aagcgctggg ccctcgtgtg gctggcctgc ctactctttg cctgcgcttt cccatccct 1680
 ctttctcaaa aaggatcacg cgaaagggtg gctgaggctc ttgaaacagg acgtccgctc 1740
 gggggcggcc gc 1752

<210> 390
 <211> 536
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (508)..(508)
 <223> n equals a,t,g, or c

<400> 390
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 acattcttta gaaaccaaga ggaaagaaag aacaaatata aaaaaagaca tagaatttaa 120
 tattgatata atttcactc taaaatggat ttgaagaaat gcaactttat atcaaaaaat 180
 gtcactctgat ttcttttgtt tcttttttaa attatgtaat cagatgattt tatgtttttt 240
 tttcagggga gcggaatatt ggtttctttt acttggtgtt ttcagttttc tctgccattc 300
 atgtttcttt tttgtgttca gtgtttcaaa tacaatttgt atttaagggt tttaaaatac 360
 caaactgtaa ctgagtacag tggatcgttt tctgttagga tgtaaatatt atacaatgaa 420
 atctataaag tgttgtcaat ttgattattg acacatataa catgtttaca aataaactgt 480
 ggtattgatc aaaaaaaaaa aaaaaaancc cggggggggg cccggaaccc aatccc 536

<210> 391
 <211> 716
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (630)..(630)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (710)..(710)
 <223> n equals a,t,g, or c

<400> 391
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 ccgcgtcctt ctgctgcccc gcgcgggtgc aggcctcgcc gcragccgca ggtgtcctgg 120
 agtctggccc aggacctggc cccacaggag tcccagcagg ggtagctcct cccgggacaa 180
 ggaccgaagt gcgacggtca gtagttcagt gcccatgcct gctggaggga aaggaagcca 240
 tccttcatct acaccccaga gggtcccaa ccgcctgatc caccgagaagt caccatacct 300
 cctacaacat gcctacaatc ctgtggactg gtacccctgg ggacaggaag ccttcgacaa 360
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 gttcgtgcag gccaccagca gcggcggggg ctggcccatg aatgtgtggc tgactcccaa 600
 cctccagccc tttgtcgggg gcactatttn cctcctgaag gatggcttga mccgagtsgg 660
 ttccgcacag tgttkctgag aatacgagaa cartggaaac agaacaagan caccct 716

<210> 392
 <211> 2716
 <212> DNA
 <213> Homo sapiens

<400> 392
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 cttccaggct gaactccctg aggtctctga ttccctaggt gtccctggagt ctggcccagg 180
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 aacaagccga ttttcctctc agtcgggtac tccacctgcc actggtgcca catgatggaa 480
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<210> 393
<211> 2409
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (694)..(694)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (716)..(716)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (755)..(755)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (761)..(761)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (791)..(791)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature

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<222> (808)..(808)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (880)..(880)
 <223> n equals a,t,g, or c

<400> 393

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aaaaaaaaaa						2409

<210> 394
 <211> 737
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (369)..(369)
 <223> n equals a,t,g, or c

<400> 394
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 cgactagtgt tcttattagt atattgcttc aactgaaga ttgtgtgtat cgagctgttt 300
 ctaaaagatg tttatatttcc ttaagagtaa aaaacagtca ttgcattcag aaaaaaaaaa 360
 aaaaaaaang tcaataaaga tacaacgatt gttttggaaa atctgcagcc cgtggattcc 420
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<210> 395
 <211> 1471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (798)..(798)
 <223> n equals a,t,g, or c

<400> 395
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 atttacagtc ttcatatata ttatatatat gtatatgtat acatatatat acactatata 180
 acgaggccag atataatata cacgtttacc attttacagt cataatgtaca ggaagttgct 240
 agggcggccc tgggctgggg gctgcgtcag gcctatcgaa gcgtggacag agctgaggac 300
 acggacggac aggcggacgg actggcaggg actggcccgg gccggtggtg gctgcgtgga 360
 caagtggcgt cgcggtagcc cttaccggc caaaggcccg gttggggctc tgttgccggc 420
 gcacgacgca cggcggcgac acacgggaga agcagcatg ttcccaacat atatacatc 480
 tatgtaacat atatatagag ggttacacag gttttgtaca cgaaatctag cgctgtccct 540
 gctcccgtgc agagtaggcg cggcggctcc tgggtgtgca caacggtcgc gcgtccggcg 600
 gagccggagg tgcgttctgg cgcgttcttg ggttttcgc tcccaggctg ggctccaggg 660
 gtggggtgga ggactggaaa ggggacaaac agaggccaaa ggggtgtccca gtcccggcca 720
 cactcgggga tcccgaacc cctaactgag catagcccar gtctaccccg gctttgcccg 780
 aaccgcacga gagatctngc aaargctggg cggraaggcc cctgracgcg ttccgcacgg 840
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 tttctccycc gcctagtcca cggagdagg agccgccctc cgcctcttcc agtactgttt 960
 cgacccccac cccaagccc agggctccca gctgcacgcc acgaccgact ggggtggcgg 1020

cagcaccac	gtggaatgtg	tgccacgtcg	tcttgagatt	ccagagggaa	agtgtcccca	1080
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gcgggctccc	cctccgcaag	cctggcccct	ggggtgggca	agaacgccct	gtgccgtccg	1200
gttccgggag	cagkcggtc	cggaacgggt	tttctccca	acccggggcc	gcaagtctga	1260
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gggcaggcgg	gtcccgcg	ctcctmcgrc	cgttggggtg	gattactacg	gcagcctctt	1440
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<210> 396
 <211> 3302
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3274)..(3274)
 <223> n equals a,t,g, or c

<400> 396						
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cccaccatgg	ccgcgaatta	ttccagtacc	agtaaccgga	gagaacatgt	caaagttaaa	240
accagctccc	agccaggttt	cctggaacgg	ctgagcgaga	cctcgggtgg	gatgtttgtg	300
gggctcatgg	ccttcctgct	ctccttctac	ctaattttca	ccaatgggg	ccgcgcattg	360
aagacggcaa	cctcattggc	tgaggggctc	tcgcttgtgg	tgtctcccga	cagcatccac	420
agtgtggctc	cggagaatga	aggaaggctg	gtgcacatca	ttggcgccct	acggacatcc	480
aagctttttgt	ctgatccaaa	ctatggggtc	catcttccgg	ctgtgaaact	gcggaggcac	540
gtggagatgt	accaatgggt	agaaaactgag	gagtcacagg	agtacaccga	ggatgggcag	600
gtgaagaag	agacgaggt	ttcctacac	agtaacatga	ggtcagaaat	catcaacagc	660
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cctgaggaga	aaagctggac	atatactggg	cttcacactt	atcttatggc	ttggcagaat	2040
ctttgtagt	tgtgggatct	ctgaaggccc	tatttaagtt	tttcttcgtt	actttgctgc	2100
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aaaaaaaaa	cttaatat	cagactgtta	caggaaacac	cctttagtct	gtcatgtgaa	2220

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aattttctaag	ttccccaact	actctcacac	cctttttaaag	ataaagtatg	ttgtaaccag	2760
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ttttttctag	taaggatttt	aaataactgc	cgacttcaaa	agtgttctta	aaacgaaaga	3180
taatgttaag	aaaaatttga	aagcttttga	aaaccaaatt	tgtaatatca	ttgtattttt	3240
tattaaaagt	tttgaataaa	atttctaaat	tatnaaaaaa	aaaaaaaaaa	aaaaaaaaaa	3300
aa						3302

<210> 397
 <211> 2227
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (289)..(289)
 <223> n equals a,t,g, or c

<400> 397						
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cgtaggctca	gatcttcatt	tgaggttatg	ttctataagt	taacgttgat	cttgtgtgag	180
ctttcggtag	ctggagtaac	acaggcggcc	tcacagcgac	ctctccagcg	ccttccaagg	240
cacatctgca	gccagcgtaa	tcctcctggg	agatgcctcc	tcaaggccnt	gctccagacc	300
acgtggggar	ggcctgacar	ccaattccca	ggctgtcccc	acccttgrag	agtgacccta	360
aacgctagac	agatggggaa	tgggaaagaa	aagaagctg	cagacctcaa	gttaaaattc	420
cctcaaaaac	gtttttattt	atctgctttt	tctgaaagga	taaaggcttt	ttgaaaatta	480
ttttctaaca	aataacatga	acacttctag	aaaccctaga	aaaacacaaa	gtattcaaaa	540
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gttgggtgag	gccgtagcct	ctgccaagtc	aaggagcccc	gtgggtggct	tggcatttct	660
gcagggttgt	ttttttttct	ttgagatgga	gtctcactct	tgtcacccca	gctggaatgt	720
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tcgaccctca	ggctcaagcg	atcctcacgc	ctcggacccc	caaagtgtct	ggatcacagg	1020
cgagagtcac	catgctggcc	tgaatcttca	gggtatttta	cggttgaagt	gtcacttact	1080
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gtcacaagcc	catctggctg	ggcctccctc	gctgtgtcct	gagctgcaca	tgccccaggt	1260
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tyagcagggg	ctyarccagg	gctggatgtc	cggagccagc	cccgmagccc	tgkgtcttt	1440
gttcttcgca	ctcccaccgt	ccgtgtgaac	agctccagcc	ccacctgcgc	ctccctgtgc	1500
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cacaggtgca	gtagatgct	gttcttccct	tagattttgt	cacgtggggacc	cagctgta	1860
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catgtgcctt	acttttttaa	aaaggagttt	attgtattca	ttggaatatg	tgacgtgaagc	2160
aataaaggga	atgttagacg	tgtaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2220
aaaaaaa						2227

<210> 398
 <211> 2214
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (289)..(289)
 <223> n equals a,t,g, or c

<400> 398						
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cgtaggctca	gatcttcatt	tgaggttatg	ttctataagt	taacgttgat	cttgtgtgag	180
ctttcggtag	ctggagtaac	acaggcggcc	tcacagcgac	ctctccagcg	ccttccaagg	240
cacatctgca	gccagcgtam	tcctcctggg	agatgcctcct	caaggccnt	gctccagacc	300
acgtgggrar	ggcctgacaa	gccaattccc	aggtctgtccc	cacccttgra	gagtgaacct	360
aaacgctaga	cagatgggga	atgggaaaga	aaagaaagct	gcagacctca	agttaaaatt	420
ccctcaaaaa	cgtttttatt	tatctgcttt	ttctgaaagg	ataaaggctt	tttgaatttt	480
attttctaac	aaataacatg	aacacttcta	gaaaccctag	aaaaacacaa	agtattcaaa	540
atagaaagaa	aaattaccca	ttactcttta	agccagcatt	atccattgcg	gtgcttttgg	600
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tggtgggtga	aacagctcac	tgcagccttg	accctgaggc	tcaagcgatc	cttctgcctt	780
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ggctcttgata	tgcgaggacg	ctgtgtcttc	cctgccacat	tttcttcttc	tttcttgaga	900
cagacccttg	ctccatcacc	caggccagag	tgtggtsgtg	cgaacacggc	tactgcagc	960
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gcgagagtca	ccatgctggc	ctgaatcttc	agggtatttr	cggttgargt	gycacttact	1080
tarccatssc	tgtttcaaga	gtgtaggtgg	tcaccctgtc	tctgccgctg	acctggcctg	1140
gaccctcggc	tgtgagaggg	aggggtgggc	tgggctggag	gaacctraag	ccctcgtgat	1200
gtcacaagcc	catctggctg	ggcatcccct	gctgtgtcct	gagctgcaca	tgcccaggt	1260
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tgggctccat	caggagagccc	agaagacgtg	tgtgcttctg	aaattgggtc	cctacatgcc	1560
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attctgcttg	caaaaaaatc	tatcatgtgc	ttttctagat	gtctctgggt	ctatagtgc	2040
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catgtgcctt	acttttttaa	aaaggagttt	attgtattca	ttggaatatgt	gacgtaagc	2160
aataaaggga	atgttagacg	tgtaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaag	2214

<210> 399
 <211> 1145
 <212> DNA
 <213> Homo sapiens

<400> 399						
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ttacgcaaaa	ggtcaccatt	tgaggtcctg	ccttactaat	tatgtgctgc	ccaacaacta	240
aatttgaat	ttgtttttct	ctagtttgag	cagggtctga	attttttca	ttatttcctt	300
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aggggacttt	gtcgccctgt	gcactaaaag	ggccagattt	tcagcagcca	aggacatcca	960
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ttgaacagca	gcgtttcata	ggaagagaaa	aaaagatcaa	tcttgtattt	tctgaccaca	1080
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aaaaa						1145

<210> 400
 <211> 717
 <212> DNA
 <213> Homo sapiens

<400> 400						
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ctcagtgcgg	cggtgtgccg	ggctgaggct	gggctcgaaa	ccgaaagtcc	cgcccgacc	180
ctccaagtgg	agaccctggt	ggagccccc	gaaccatgtg	ccgagcccg	tgcttttgga	240
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gcctatggaa	aacggggatt	tccaccatct	gtcccagcgg	atgcagtgg	gcagtatgac	480
gtggagctga	ttgcaactaa	ccgagccaac	tactggctaa	agctggtgaa	gggcattttg	540
cctctggtag	ggatggccat	ggtgccagcc	ctcctggggc	tcattgggta	tcacctatac	600
agaaaggcca	atagacccaa	agtctccaaa	aagaagctca	aggaagagaa	acgaaacaag	660
agcaaaaaga	aataataaat	aataaatttt	aaaaaaaaa	aaaaaaaaaa	aaaaaaa	717

<210> 401
 <211> 713
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (27)..(27)
 <223> n equals a,t,g, or c

<400> 401
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 ctgccccgcg cccagtcattg accctgcgcc cctcactcct cccgctccat ctgctgctgc 120
 tgctgctgct cagtgcggcg gtgtgccggg ctgaggctgg gctcgaaacc gaaagtcccg 180
 tccggaccct ccaagtggag accctgggtg agccccaga accatgtgcc gagcccgctg 240
 cttttggaga cacgcttcac atacactaca ggggaagctt ggtagatgga cgtattattg 300
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 gcattttgcc tctggtaggg atggccatgg tgccaccctc ctgggcctca ttgggtatca 600
 cctatacaga aaggccaata gacccaaagt ctccaaaaag aagctcaagg aagagaaacg 660
 aaacaagagc aaaaagaagt aataaataat aaattttaaa aaacttaaaa aaa 713

<210> 402
 <211> 802
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (337)..(337)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (359)..(359)
 <223> n equals a,t,g, or c

<400> 402
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 cccatcatgc acagatcaga gccattttctg aaaatgtcgc tgctgattct gcttttcctg 120
 ggattggcag aagcctgtac tcctcgtgaa gtcaacttgc tgaaaggga cataggtctc 180
 atgagcagac tgtcaccgga tgagatccta ggcttgctga gcctccaagt actgcatgaa 240
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 ccactcccca agagggaaga acacgtggaa yttcctngaa atgcsctac atggtgrtng 360
 acctacctct tcgtatccta caacaaaggg gactgggtca ctttttcctc caagtgtta 420
 ctgccaytac tgtaacttgg aactggacat cagggatgat ccctgctgtt ctttctagt 480
 agcctgctcc atctcagctt agccttcaca aggcctccat ctcccaggca ttctaacctc 540
 tgaagaaagc tctctgtccc ctggactgcc tgtgtggagg gtaatgaact gggtccttta 600
 aggaatggca cctgggtgcc cagaggcatg gccagaaggt gtctgtgggg gccatgcctt 660
 agggggatgc acccagggcg gctgagagag caactgcagg agtttccctt aaaatctctc 720
 ctccagatcg ttctcgaact ttccccacta cttccataat aaaatgtata cttgttgaaa 780
 aaaaaaaaaa aaaaaactcg ag 802

<210> 403
 <211> 1186
 <212> DNA
 <213> Homo sapiens

<400> 403
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 ggtagggggg ttgtccctgg aattctggga cactgggtgg ggtttgagga gagaagccag 120

tacctacctg	gctgcaggat	gaagctggcc	agtggcttct	tggttttgtg	gctcagcctt	180
gggggtggcc	tggctcagag	cgacacgagc	cctgacacgg	aggagtccta	ttcagactgg	240
ggccttcggc	acctccgggg	aagctttgaa	tccgtcaata	gctacttcga	ttcttttctg	300
gagctgctgg	gaggggaagaa	tggagtctgt	cagtacagg	gccg a atgg	aaaggcacca	360
atgcccagac	ctggctacaa	gccccaaagag	cccaatggct	gcggctccta	tttcctgggt	420
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gaagcctgtg	attccctggg	tgacactgtg	ttcaacaccg	tgtggacctt	gggctgccgc	660
ccctttatga	atagtcagcg	ggcagcttgc	atctgtgcag	aggaggagaa	ggaagagtta	720
tgaggaagaa	gtgattcctt	cctgggtttt	agtgcacacca	cagctgtcag	ccttcaagat	780
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aggcaatgac	tttctgctgg	cccatgtttc	agttgccagt	aagcttctca	catttaataa	1140
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<210> 404
 <211> 470
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (444)..(444)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (458)..(458)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (469)..(470)
 <223> n equals a,t,g, or c

<400> 404						
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ccagcccacc	ctgcaaggct	cctaccacct	ggaccgcgag	tagccctcct	actgctccgg	120
gggagctgca	gtctctgttg	ctgcc a caa	ccgcataagg	cgagctgcaa	agccatgcc	180
tctgcaggct	ccaatgtacc	atagatgact	cctcctcttc	ctcctcctcc	agcctggctt	240
ggagcagcta	gatgggcaaa	gctagaaaag	cctaaaacgg	gatgcaggga	gtggtagcat	300
tagagcctca	ccttgtcacg	ctggccactg	ggtggcaggg	accagtttca	gcaa a ggac	360
tcacaccac	cctccaaagt	ccagcctctm	mttctggcaa	aagctggcca	ggaactgggg	420
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<210> 405
 <211> 1821
 <212> DNA
 <213> Homo sapiens

<400> 405						
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atcaacttcc	accagaacga	tcccgtagaa	atcaaggctg	tgaagctcac	cagctctcga	180
acccagctac	cttatgaata	ctattcactg	cccttctgcc	agcccagcaa	gataacttac	240
aaggcagaga	atctgggaga	ggtgctgaga	ggggaccgga	ttgtcaacac	ccctttccag	300
gttctcatga	acagcgagaa	gaagtgtgaa	gttctgtgca	gccagtccaa	caagccagt	360
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cacctcattg	ctgacaacct	gcctgtggcc	acccggctgg	agctctactc	caaccgagac	480
agcgatgaca	agaagaagga	aagtgatatc	aaatgggcct	ctcgctggga	cacttactga	540
ccatgagtga	cgtccagatc	cactggtttt	ctatcattaa	ctccgttgtt	gtggcttctt	600
tcctgtcagg	tatcctgagc	atgattatca	ttcggaccct	ccggaaggacatt	gccaact	660
acaacaagga	ggatgacatt	gaagacacca	tggaggagtc	tgggtggaag	ttggtgcacg	720
gcgacgtctt	caggccccc	ccagtacccc	atgacctca	gctccctgct	gggctcaggc	780
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gagcagcgg	ggtacatgaa	ccgattttgtg	ggcatcctca	tggctgggat	cttgccttcg	1260
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acaagtga	gcagcgccaa	gcggcatcca	ccaagcatca	agttggagaa	aagggaaccc	1560
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aaaaaaaaactc	gaggggggggc	c				1821

<210> 406
 <211> 1094
 <212> DNA
 <213> Homo sapiens

<400> 406						
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ccctgctggg	ctcaggcatt	cagctgttct	gtatgatcct	catcgtcac	ttttagacca	120
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tcatgttcat	gggggtgttt	ggcggatttt	ctgctggccg	tctgtaccgc	actttaaaag	240
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tgggctacta	cttcggcttc	cgaagcagc	catatgacaa	ccctgtgctc	accaaccaga	480
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ctgggatctt	gcccttcggc	gccatgttca	tcgagctctt	cttcatcttc	agtgtatctt	600
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aaaaaaaaaaaa	aaaa					1094

<210> 407

<211> 1932
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (293)..(293)
 <223> n equals a,t,g, or c

<400> 407
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 asctcggcac ctgcagggtcc gtgcgtcccg cggttggcgc ccctgactcc gtcccggcca 120
 gggagggcca tgatttccct cccggggccc ctggtgacca acttgctgcg gttt#gttc 180
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 aaccggttgc aggcggtgga gggaggggaa gtggtgcttc cagcgtggta cancttgac 300
 ggggaggtgt cttcatccca gccatgggag gtgccctttg tgatgtggtt cttcaaacag 360
 aaagaaaagg aggatcagggt gttgtcctac atcaatgggg tcacaacaag caaacctgga 420
 gtatccttgg tctactccat gccctcccgc aacctgtccc tgcggctgga gggctccag 480
 gagaaagact ctggccccta cagctgctcc gtgaatgtgc aagacaaaca aggcaaatct 540
 agggggccaca gcatcaaaac cttagaactc aatgtactgg ttctccagctcctccatcc 600
 tgccgtctcc aggtgtgtcc ccatgtgggg gcaaactgga ccctgagctg ccagtctcca 660
 aggagtaagc ccgtgtcca ataccagtggt gatcggcagc ttccatcctt ccagactttc 720
 tttgcaccag cattagatgt catccgtggg tctttaagcc tcaccaacct ttcgtcttcc 780
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 cgctggaagt gagcacaggc cctggagctg cagtggttgc tggagctgtt gtgggtaccc 900
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 gatataacct gtcaggctgg cttgggttagg ttttactggg gcagaggata gggaatctct 1740
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 atgtttgtat garaaaaaaa aaaaaaaaaa aaaggggcg gccgtcttag aggatccctc 1860
 gaggggccca agcttacgcy tgcattgcgac gtcattagctc tctccctata gtgagtcgta 1920
 ttataagcta gg 1932

<210> 408
 <211> 711
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (345)..(345)
 <223> n equals a,t,g, or c

<400> 408
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 cataccctct accgtggaca ccaggcagcc ctggggctga tggagagaga tcaggtatcc 120

cccagggagt	aggggctacc	ttgaggggat	gatagacctc	ccccactccc	agtgkkactc	180
tggaatatg	aaggaactag	ggagtgggaag	agatttcaga	gctggggaga	ggagttcctc	240
ccttcaaagc	cagcaactgc	ctttggggaa	tgtcgggggg	tctctccttt	ctcctgcttg	300
tttragggtg	tacacagtcc	ccccttcamc	tggsgggaag	ctgtncggga	caractcatc	360
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tggtggtaaa	gtggagcaat	cccttcacgc	tccttggcca	tgttctgagc	ggccagcttg	660
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<210> 409

<211> 973

<212> DNA

<213> Homo sapiens

<400> 409

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ctggccccac	ggggcattgc	tcttctctctg	gctcttctcc	ccacccttgg	gggcccgttg	180
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<210> 410

<211> 984

<212> DNA

<213> Homo sapiens

<400> 410

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ttcacgcccc tgcaccgcct cgta

984

<210> 411
<211> 553
<212> DNA
<213> Homo sapiens

<400> 411
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cgagaccaca tgtcactgcc agtgcgcggg catggactgg accggagcgc gctgctgtcg 360
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gagggttgcg ggggagctgg aaataaacct ggagatgatg atgatgatga tgatggaaaa 480
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aaaaaaaaaa aaa 553

<210> 412
<211> 1614
<212> DNA
<213> Homo sapiens

<400> 412
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catttctgag gccttgtaag gccagagctt tgggcttca tcggcagggt gggacttaga 540
tggccgtgaa tgtttcctct ctgctgctgc agtaagtaag tgcccgcacc atagtgtgtt 600
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<210> 413
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<212> DNA
<213> Homo sapiens

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<220>
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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1184)..(1184)
 <223> n equals a,t,g, or c

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<210> 415
 <211> 628
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <222> (596)..(596)
 <223> n equals a,t,g, or c

<400> 415
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 cgtttggttg accttctctt ggtgctatta tttgaaggac gaaaagcttt gccaaagtct 180
 agtgctggat ctacaggcag aatcccagga ctccggagat tagatagttc tggggagcgc 240
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 tgaaacctga ataaatgctt tttgatgcaa aaaaaaaaaa aaaagaaaaa taaaaaaaaa 540
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 aaaaaaaca aaaaaaaaaa aaaaaaaa 628

<210> 416

<211> 425
 <212> DNA
 <213> Homo sapiens

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 <222> (367)..(367)
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<220>
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 <222> (408)..(408)
 <223> n equals a,t,g, or c

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 ctgtcttatt gatgctagaa gcctcataac tgttctacct ccaagggttag atttaatcct 300
 taggataact cttttaaagt gattttcccc agtggtttat atgaaacatt tccttttgat 360
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<210> 417
 <211> 1191
 <212> DNA
 <213> Homo sapiens

<400> 417
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<210> 418

<211> 1626
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <221> misc_feature
 <222> (542)..(542)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (607)..(607)
 <223> n equals a,t,g, or c

<400> 418
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 aaaaaa 1626

<210> 419
 <211> 2351
 <212> DNA

<213> Homo sapiens

<400> 419

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<210> 420

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 420

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 <211> 669
 <212> DNA
 <213> Homo sapiens

<400> 421						
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<210> 423
 <211> 1949
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1130)..(1130)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1948)..(1948)

<223> n equals a,t,g, or c

<400> 423

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cagcgaccag ctggggggcc aggacgtgcc cgtgttccgg aacctgtccc tgctggtggt      600
gggtgtcggc gccgtgttct cactgctatt ccacctgggc acccgggaga ggcgccggcc      660
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ctcaggcctc ctggtgatcc tggcctttgc cgctgggtg gcgctggcgg agggactggg      1020
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ctcgtcggcc atgacggccg acctcatcgg tccccacacg aaagcggan ckttcgtgta      1140
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gaaaagcccc cactgccct cactcttctc tggaccccca ccctccatcc tcacccagct      1500
cccgggggtg gggtcgggtg agggcagcag ggatgccgc cagggaactg caaggacccc      1560
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gggtgcccct ctcggcaggg aacaggaagt aggaatccca gaagggtctg ggggaaccct      1680
aacctgagc tcagtccagt tcacccctca cctccagcct ggggggtctcc agacactgcc      1740
agggccccct caggacggct ggagcctgga ggagacagcc acggggtggt gggctgggcc      1800
tggaacccac cgtggtgggc agcagggtg cccggcaggc ttggtggact ctgctggcag      1860
caataaaaga gatgacggca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      1920
aaaaaaaaaa aggggggggg gctagtnt      1949
```

<210> 424

<211> 1487

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (78)..(78)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (948)..(948)

<223> n equals a,t,g, or c

<400> 424

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ccgcctggct cctgctgnca cctgcaggct cgctcggggt ggagcccacc caagacatca      120
gcatcagcga ccagctgggg ggccaggacg tgcccgtgtt ccggaacctg tccctgctg      180
tggtgggtgt cggcgccgtg ttctcactgc tattccacct gggcaccggg gagaggcgcc      240
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ggccgcatgc	ggasgagcca	ggcgagcaca	ccccctgtt	ggccccctgcc	acggcccagc	300
ccctgctgct	ctggaagcac	tggctccggg	agcsggcttt	ctaccagggtg	ggcatactgt	360
acatgaccac	caggctcatc	gtgaacctgt	cccagacctt	catggccatg	tacctcact	420
actcgctcca	cctgcccagg	aagttcatcg	cgaccattcc	cctgggtgatg	tacctcagcg	480
gcttcttgtc	ctccttcctc	atgaagccca	tcaacaagtg	cattgggagg	aacatgacct	540
acttctcagg	cctcctgggtg	atcctggcct	ttgccgcctg	ggtggcgctg	gcggagggac	600
tgggtgtggc	cgtgtacgca	gggctgtgc	tgctgggtgc	tggctgtgcc	accatcctcg	660
tcacctcgct	ggccatgacg	gccgacctca	tcggtcacca	cacgaacagc	ggagckttcg	720
tgtacggctc	catgagcttc	ttggataagg	tggccaatgg	gctggcagtc	atggccatcc	780
agagcctgca	cccttgcccc	tcagagctct	gctgcagggc	ctgcgtgagc	tttaccact	840
gggcgatggg	cgtgtgacg	ggcggcggtg	gcgtggccgc	tgccctgtgt	ctctgtagcc	900
tcctgctgtg	ggcgaccgcg	ctgcgacgct	gatgagacct	gcacgcantg	gctcacagca	960
gcacgatttg	tgacagcccc	aggcggagaa	caccgaacac	ccagtgaagg	tgaggggatc	1020
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gactaggtga	cataatgggg	acagggtggc	cttctgggtg	atgagaatgt	tctggaatca	1320
gatgggtagg	ctgcacggcg	tgggtgaagg	actgaacgcc	acctcactgt	aagacggtag	1380
attttgtatt	ttaccacaat	aaacaaaaca	aaacaaaacc	aaaaaaaaaa	aaaaaaaaaa	1440
aaaaaaaaag	aattcgatat	caagcttatc	gataccgctg	acctcga		1487

<210> 425

<211> 1525

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (78)..(78)

<223> n equals a,t,g, or c

<400> 425

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ccgcctggct	cctgctgnca	cctgcaggct	cgctcgcggt	ggagcccacc	caagacatca	120
gcatcagcga	ccagctgggg	ggccaggacg	tgcccgtgtt	ccggaacctg	tccctgctgg	180
tgggtgggtg	cggcgccgtg	ttctcactgc	tattccacct	gggcacccgg	gagagggccc	240
ggccgcatgc	ggasgagcca	ggcgagcaca	ccccctgtt	ggccccctgcc	acggcccagc	300
ccctgctgct	ctggaagcac	tggctccggg	agcsggcttt	ctaccagggtg	ggcatactgt	360
acatgaccac	caggctcatc	gtgaacctgt	cccagacctt	catggccatg	tacctcact	420
actcgctcca	cctgcccagg	aagttcatcg	cgaccattcc	cctgggtgatg	tacctcagcg	480
gcttcttgtc	ctccttcctc	atgaagccca	tcaacaagtg	cattgggagg	aacatgacct	540
acttctcagg	cctcctgggtg	atcctggcct	ttgccgcctg	ggtggcgctg	gcggagggac	600
tgggtgtggc	cgtgtacgca	gcggctgtgc	tgctgggtgc	tggctgtgcc	accatcctcg	660
tcacctcgct	ggccatgacg	gccgacctca	tcggtcacca	cacgaacagc	ggactktcgt	720
gtacggctcc	atgagcttct	tggataagg	ggccaatggg	ctggcagtc	tggccatcca	780
gagcctgcac	ccttgccccct	cagagctctg	ctgcaggggc	tgctgagct	tttaccactg	840
ggcgatgggtg	gctgtgacgg	gcggcgtggg	cgctggcgct	gccctgtgtc	tctgtagcct	900
cctgctgtgg	ccgacccgcc	tgcgacgctg	ggaccgtgat	gcccggccct	gactcctgac	960
agcctcctgc	acctgtgcaa	gggaactgtg	gggacgcacg	aggatgcccc	ccarggcctt	1020
ggggaaaagc	cccactgcc	cctcactctt	ctctggacc	ccacctcca	tctcaccaca	1080
gctcccgggg	gtggggctcg	gtgagggcag	cagggatgcc	cgccaggagc	ttgcaaggac	1140
cccctgggtt	ttgagggtgt	cccatttctc	actctaattc	atcccagccc	tctggaggat	1200
ttgggggtgcc	cctctcggca	gggaacagga	agtaggaatc	ccagaagggt	ctgggggaac	1260
cctaaccctg	agctcagtc	agttcacc	tcacctccag	cctgggggtc	tccagacact	1320
gccaggggcc	cctcaggacg	gctggagcct	ggaggagaca	gccacgggtg	ggtgggctgg	1380
gcctggaccc	caccgtgggtg	ggcagcaggg	ctgcccggca	ggcttggtgg	actctgctgg	1440

```

cagcaaataa agagatgacg gcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1500
aaaaaaaaaa aaaccaccg tccgc 1525

```

```

<210> 426
<211> 1050
<212> DNA
<213> Homo sapiens

```

```

<400> 426
ccacgcgtcc ggccagccag tccgcccgtc cggagcccgg ctcgctgggg cagcatggcg 60
gggtcgccgc tgctctgggg gccgcggg gggggcgctc gccttttggg gctgctgctg 120
ctcggcctgt ttcgccgcc cccgcgcgtc tgcgcgcggc cggtaaagga gccccgcggc 180
ctaagcgcag cgtctccgcc cttggctaga ctggcgctcc tcgccgcttc cggcggtcag 240
tgccccgagg tgaggcggcg ggggcgggtc agacctggcg cggcgctgg cgcattctgct 300
ggagccgaac gtcaggagcg ggcgcgggcc gaggcgcaga ggctgaggat cagcaggcgc 360
gcgtcctggc gcagctgctg cgcgtctggg gcgccccccg caactctgat ccggctctgg 420
gcctggacga cgaccccgac gcgcctgcag cgcagctcgc tcgcgctctg ctccgcgccc 480
gccttgaccc tgccgcccta gcagcccagc ttgtccccgc gcccgctccc gccgcggcgc 540
tccgaccccc gcccccggtc tacgacgacg gccccgcggg cccggatgct gaggaggcag 600
gcgacgagac acccgacgtg gaccccgagc tggttaggta cttgctggga cggattcttg 660
cgggaagcgc ggactccgag ggggtggcag cccgcgcggc cctccgccgt gccgcgacc 720
acgatgtggg ctctgagctg cccctgagg gcgtgctggg ggcgctgctg cgtgtgaaac 780
gcctagagac cccggcgccc caggtgcctg cacgcgcct cttgccacc tgagcactgc 840
ccgatcccg tgcaccctg gaccagaag tgcccccgcc atcccgccac caggactgct 900
ccccgccagc acgtccagc caacttaccc cggccagcca gccctctcac ccgaggatcc 960
ctacccctg gccccacaat aaacatgatc tgaagcagca aaaaaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1050

```

```

<210> 427
<211> 718
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (678)..(678)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (687)..(687)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (699)..(699)
<223> n equals a,t,g, or c

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```

<220>
<221> misc_feature
<222> (708)..(708)
<223> n equals a,t,g, or c

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```

<400> 427
natccccctg gctgcaggaa ttcggcacga ggaactctga gcaccgtggc ttccagcatc      60
aatgccttgg caacagtgac ctttgaggat tttgtcaa gctgttttcc tcatctctcc      120
gacaagctga gcacctggat cagtaaaggc ttatgtctct tatttggcgt gatgtgtacc      180
tctatggctg tggctgcata tgtcatggga ggtgttgtgc aggcttccct cagcattcac      240
ggcatgtgtg gaggaccaat gctgggctta ttctccctgg gaatcgtgtt cccttttgtg      300
aattggaagg gtgcactagg aggtcttctt actggaatca ccttgtcatt ttgggtggcc      360
attggggcct tcattttacc tgcaccagcc tctaagacat ggcctttgcc tctatcaaca      420
gaccaatgta tcaaatacaa tgtgacagca acagggcctc cagtactatc cagcagacct      480
ggaatagctg atacctggta ctcgatctcc taatttact acagtgcagt gggctgctta      540
ggatgcattg ttgctggagt aatcatcagc ctcataacag gtcgccaaag aggtgaggat      600
attcaaccac tggttaatta gaccagtttg taattttaatt tgcttttggg ctaagaaagt      660
acaaaaccac tatgctgngt gtggagntca gcatgacant ggggacanag caggaaaa      720

```

```

<210> 428
<211> 614
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (52)..(52)
<223> n equals a,t,g, or c

```

```

<400> 428
aatcccaag gttgtcttta aatatttctc aaaagagaaa gccttgaaag angcatacaa      60
tagagtaaaa atwaattacc agtattttatt atagaaaaag atagaaagac agacaaatca      120
gtggagggaat taaaacagag aaactggagt ttataaaaaca gagcccaatc cttgccttct      180
ctccctccac tcaaatagaa aaggagaatg gagaaagaga aagaaggat taggctacag      240
tttataagag agatgagaaa aaaatacatt tgggaataga gggaaagggt caaaagggt      300
cacatttgga gaaatatctg aaaatgagaa ggagcagaat ttttggaaac atttttttaa      360
gtctggcaac gctaattaag ctgttgatct aaggatttgc aaattgagag gtgcaattat      420
tttccaaatg atttgtgaca ctcttattaa ttagaatata tattctgtga atattgaaat      480
ctgagccaaa actagttagc tttattata tcttagggaa agaagagaga aagaaagagg      540
gagggagaga gagaaagaaa gaaagaaaga aagaaagaaa gaaagaaaga aaaaaaaaaa      600
aaaaaaaaac gtag      614

```

```

<210> 429
<211> 1194
<212> DNA
<213> Homo sapiens

```

```

<400> 429
gagcccagca acgtgcaagg ggaaagggga caggattctg gatggccatt tgcttctactg      60
ggatgcaaaa cctcttttga gtactagaat cagtatttct tcttccatct ctgctgtacc      120
tgagaagaaa tggccaaacg caccttctct aacttggaga cattcctgat tttcctcctt      180
gtaatgatga gtgccatcac agtggæcct ctcagcctct tgtttatcac cagtgggacc      240
attgaaaacc acaaagattt aggaggccat tttttttcaa ccacccaaag ccctccagcc      300
accaggggct ccacagccgc ccaacgctcc acagccaccc agcattccac agccaccag      360
agctccaaca gccaactcaa acttctccag tgcccttaac ccagagatct cctctaattc      420
agaacttcag tggctaccat attggtgttg gacgagctga ctgcacagga caagtagcag      480
atatcaattt gatgggctat ggcaaaccg gccagaatgc acagggcatc ctcaccaggc      540
tatacagtcg tgccttcata atggcagaac ctgatgggtc caatcgaaca gtgtttgtca      600
gcatcgacat aggcattgta tcccaaaggc tcaggctgga ggtcctgaac agactgcaga      660
gtaaatatgg ctccctgtac agaagagata atgtcatcct gagtggcact cacactcatt      720
caggtcctgc aggatatttc cagtataccg tgtttgtaat tgccagtga ggatttagca      780

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atcaaacttt	tcagcacatg	gtcactggta	tcttgaagag	cattgacata	gacacacaa	840
atatgaaacc	aggcaaaatc	ttcatcaata	aaggaaatgt	ggatgggtgtg	cagatcaaca	900
gaagtccgta	ttcttacctt	caaaatccgc	agtcagagag	agcaagggtat	tcttcaaata	960
cagacaagga	aatgatagtt	ttgaaaatgg	tagatttgaa	tggagatgac	ttgggcctta	1020
tcagtttttc	attcagcaag	tctgcactag	ggacctacta	tgagccacgc	aatacttcct	1080
tggaaatgatg	tattccctgg	ccttgaaata	aggaatctag	tacccatgtt	tgtgctactg	1140
gaatgaatcc	attaaactct	ctgagactca	aaaaaaaaaa	aaaaaaaaaa	aaaa	1194

<210> 430

<211> 2334

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2278)..(2278)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2290)..(2290)

<223> n equals a,t,g, or c

<400> 430

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ggacgaggcc	ggggcttcct	caaggaggct	ctctgactgc	caccttgcc	tgctgccc	120
gccctgcaca	acatgcagcc	ctccggcctc	gaggtccc	gcacgttgg	tcggtggcct	180
ctgctgagtc	tgctgctcct	gctgctgctg	ctccagcctg	taacctgtgc	ctacaccacg	240
ccaggccccc	ccagagccct	caccacgctg	ggcgcccca	gagcccacac	catgccgggc	300
acctacgctc	cctcgaccac	actcagtagt	cccagcacc	agggcctgca	agagcaggca	360
cgggccctga	tgcgggactt	ccgctcgtg	gacggccaca	acgacctgcc	cctggtccta	420
aggcaggttt	accagaaagg	gctacaggat	gttaacctgc	gcaatttcag	ctacggccag	480
accagcctgg	acaggcttag	agatggcctc	gtgggcgccc	agttctggtc	agcctatgtg	540
ccatgccaga	cccaggaccg	ggatgccctg	cgctcacc	tggagcagat	tgacctcata	600
cgcgcgatgt	gtgcctccta	ttctgagctg	gagcttgtga	cctcggctaa	agctctgaac	660
gacactcaga	aattggcctg	cctcatcggt	gtagagggtg	gccactcgct	ggacaatagc	720
ctctccatct	tacgtacctt	ctacatgctg	ggagtgcgct	acctgacgct	caccacacc	780
tgcaacacac	cctgggcaga	gagctccgct	aagggcctcc	actccttcta	caacaacatc	840
agcgggctga	ctgactttgg	tgagaagggtg	gtggcagaaa	tgaaccgcct	gggcatgatg	900
gtagacttat	cccattgtct	agatgctgtg	gcacggcggg	cctggaagt	gtcacaggca	960
cctgtgatct	tctcccactc	ggctgcccg	ggtgtgtgca	acagtgtctg	gaatgttcct	1020
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ggagtaatac	agtgaaccc	atcagccaat	gtgtccactg	tggcagatca	cttcgaccac	1140
atcaaggctg	tcattggatc	caagttcatc	gggattgggtg	gagattatga	tggggccggc	1200
aaattccctc	aggggctgga	agacgtgtcc	acatacccag	tcctgataga	ggagttgctg	1260
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ccagccaagt	ggtcagtcct	agagtccctc	ccccacatgg	ccccagtcct	tgcatgtgtg	1560
gccaccttcc	cagtccttat	tctgtggctc	tgatgaccca	gttagtcctg	ccagatgtca	1620
ctgtagcaag	ccacagacac	cccacaaagt	tcccctgttt	gcaggcacia	atatttcctg	1680
aaataaatgt	tttgacata	gaaaaaaaaa	aaaaaaaaag	ggcgccgctc	ctagaggatc	1740
cctcgagggg	cccaagctta	cgcgtgcatg	cgacgtcata	gctctctccc	tatagtgagt	1800
cgtattataa	gctaggcact	ggccgtcggt	ttacaacgtc	gtgactggga	gatctgctag	1860
cttgggatct	ttgtgaagga	accttacttc	tgtggtgtga	cataattgga	caaactacct	1920
acagagattt	aaagctctaa	ggtaaatata	aaatttttta	gtgtataatg	tgttaaacta	1980

gctgcatatg	cttgctgctt	gagagttttg	cttactgagt	atgatttatg	aaaatattat	2040
acacaggagc	tagtgattct	aattgtttgt	gtattttaga	ttcacagtcc	caaggctcat	2100
ttcaggcccc	tcagtcctca	cagtctgttc	atgatcataa	tcagcatac	cacatttgta	2160
gaggttttac	ttgctttaa	aaacctycca	cacctcccc	tgaacctgaa	acataaaatg	2220
aatgcaattg	gtggtggtaa	cttggttaat	ggagcttata	atggtaccaa	taaagcantg	2280
catcacaaan	ttcccaaata	aagcatTTTT	tcctggaatt	taaatggggg	ttgg	2334

<210> 431
 <211> 759
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (51)..(52)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (57)..(58)
 <223> n equals a,t,g, or c

ggattaacaa	attttncaca	cnaggaaaac	aggttnttga	cccaattagg	nnttttnnca	60
aaaaagctta	tttttaggtt	gacacttatt	agaagttacg	ccttgacaggt	taccggttcc	120
ggaattcccc	ggtcgaaccc	caaggggttc	gcggacccca	gacatgagga	ggctcctcct	180
ggtcaccagc	ctggtggttg	tgctgctgtg	ggaggcaggt	gcagtcccag	cacccaaggt	240
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cgcccggtgtg	gtggagcctc	cggagaagga	cgaccagctg	gtggtgctgt	tccctgtcca	360
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gcccagccat	gacagcctgt	accaccctcc	gcctgaggag	gaccagggcg	aggagaggcc	540
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catctaccac	ccccagtagg	gctccagggg	ccatcactgc	ccccgcctg	tcccaaggcc	660
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ggccgggaaa	aaaaaaaaaa	aaaaaaaaaa	ggcggccgc			759

<210> 432
 <211> 647
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (525)..(525)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (578)..(578)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (581)..(581)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (620)..(620)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (629)..(630)
 <223> n equals a,t,g, or c

<400> 432
 gtgaaacgcc tgggctcaag ctgattcacc tgcctccacc tcccacagtg ctgggattac 60
 aaacatgatc cccacgccc agccaacaca aaacttctga tgctctgttt tctcatctgt 120
 gaactggagc taaggctaag tggctgtctt gtttaataag agtttgatc agatggcctg 180
 gcatgaagag tcaactggcct gagagaatgt caggggcatt tgtaaagtgt taaagggctg 240
 aaaaatcctg agggattatt attattgcta ttgttggtat tattcacaga cacatycac 300
 agccattgtc tgcctcctta tctgtcatgc tttctgcacg agcgtcagcc tgagcttcaa 360
 tctgtgtgta tatctgcagc ttacgtcctt gcacccctcc agaaccagc ttcaccttg 420
 taggtttttc craagcagga ttgcacaag tggcgtgttt tcttaagtat ttattttgca 480
 ggccatttac tcggcatggc tatttttaca gtgggtaagg agcanggcta aaaataaact 540
 agctcataac cagacaggtt ctgcatttga cattacgngg attcatttg catcccat 600
 ggtcgccttt ctggttaacn ggtagaatnn aagaaagctc acccgaa 647

<210> 433
 <211> 1321
 <212> DNA
 <213> Homo sapiens

<400> 433
 gcggggggga ggaggagggg gaggagggag cggagatctc ggggctcgga gccggccgcc 60
 gctccgctcc gatcgctgtg gggcttggtt ttttgggggt gggggggcgg gggggctcag 120
 atatggaggc aaatgggagc caaggcacct cgggcagcgc caacgactcc cagcacgacc 180
 ccggtaaaat gtttatcggg ggactgagct ggcagacctc accagatagc cttagagact 240
 attttagcaa atttgagaa attagagaat gtatggatcat gagagatccc actacgaaac 300
 gctccagagg cttcggtttc gtcacgttcg cagaccagc aagtgtagat aaagtattag 360
 gtcagcccca ccatgagtta gattccaaga cgattgaccc caaagttgca tttcctcgtc 420
 gagcgcaacc caagatggtc acaagaacaa agaaaatatt tgtaggcggg ttatctgcga 480
 acacagtagt ggaagatgta aagcaatatt tcgagyagtt tkgcaagggt gaagatgcaa 540
 tgctgatgtt tgataaaact accaacaggc acagaggggt tggctttgtc acttttgaga 600
 atgaagatgt tgtggagaaa gtctgtgaga ttcatctcca tgaaatcaat aataaaatgg 660
 tagaatgtaa gaaagctcag ccgaaagaag tcatgtccc acctgggaca agaggccggg 720
 cccggggact gccttacacc atggacgcgt tcatgcttgg catggggatg ctgggtgagt 780

ctggacagga	ccgcagggtca	ccatggactg	ggagggctat	ggaggcctct	actcccaact	840
gggtcaccta	ccagtggggc	aaactgcttc	acctttctaa	gcctcagttt	ccttgctctg	900
agatgaggat	gataattccc	cgttccaaga	cagttgtgat	gattaagtgt	gggtgtgtgt	960
gtgtgcatgc	atgtgtgtgt	gtgtgtgtgt	gtgtttgtat	ttataatatt	gccccatgcc	1020
tggcttatag	gatatgttag	actattttct	ctcttttcca	tctccttctt	caaaagaagg	1080
aaaagtcccc	ctctatctgc	ctcagccctc	tcctctgagt	gggagttytt	aagatgtaag	1140
gactcctggc	tgacttgact	tgtgtgggct	aaggctacgt	tttctaaaac	ttgggagagg	1200
agggaagtgg	taagggtggg	cgataatcct	gtctatttaa	atgattaaca	tttttctctt	1260
gggatatcaa	aatttgcatt	taaatggatg	ttttaaatag	cctgtttttac	tctttatttg	1320
c						1321

<210> 434
 <211> 1636
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1624)..(1624)
 <223> n equals a,t,g, or c

<400> 434						
tgcacccacg	cgtccggctg	agtggagct	gagcctgccc	caccaccaag	atgatcctga	60
gcttgctggt	cagccttggg	ggcccccttg	gctgggggct	gctgggggca	tgggcccagg	120
cttccagtac	tagcctctct	gatctgcaga	gctccaggac	acctgggggc	tgggaaggcag	180
aggctgagga	caccagcaag	gaccccggtg	gacgtaactg	gtgcccctac	ccaagtcca	240
agctggtcac	cttactagct	ctttgcaaaa	cagagaaatt	cctcatccac	tcgcagcagc	300
cgtgtccgca	gggagctcca	gactgccaga	aagtcaaagt	catgtaccgc	atggcccaca	360
agccagtgtg	ccagggtcaag	cagaagggtg	tgacctcttt	ggcctggagg	tgctgccttg	420
gctacacggg	ccccaaactg	gagcaccacg	attccatggc	aatccctgag	cctgcagatc	480
ctgggtgacag	ccaccaggaa	cctcaggatg	gaccagtcat	cttcaaacct	ggccaccttg	540
ctgcagtgat	caatgaggtt	gaggtgcac	aggaacagca	ggaacatctg	ctgggagatc	600
tccagaatga	tgtgcaccgg	gtggcagaca	gcctgccagg	cctgtggaaa	gcccctgcctg	660
gtaacctcac	agctgcagtg	atggaagcaa	atcaaacagg	gcacgaattc	cctgatagat	720
ccttgaggca	ggtgctgcta	ccccacgtgg	acaccttctt	acaagtgcac	ttcagcccca	780
tctggaggag	ctttaaccac	agcctgcaca	gccttaccca	ggccataaga	aacctgtctc	840
ttgacgtgga	ggccaaccgc	caggccatct	ccagagtcca	ggacagtgcc	gtggccaggg	900
ctgacttcca	ggagcttggt	gccaattttg	aggccaaggt	ccaggagaac	actcagagag	960
tgggtcagct	gcgacaggac	gtggaggaac	gcctgcacgc	ccagcacttt	acctgcacc	1020
gctcgatctc	agagctccaa	gccgatgtgg	acaccaaatt	gaagggtctg	cacaaggctc	1080
akgaggcccc	agggaccaat	ggcagtctgg	tgttggcaac	gcctggggct	ggggcaaggc	1140
ctgagccgga	cagcctgcag	gccaggctgg	gccagctgca	gaggaaacct	tcagagctgc	1200
acatgaccac	ggcccgcagg	gaggaggagt	tgacgtacac	cctggaggac	atgagggccca	1260
ccctgacccg	gcacgtggat	gagatcaagg	aactgymctc	cgaatcggac	gagactttcg	1320
atcagattag	caagktgkwg	cggcaggtgg	aggagctgca	ggtgaaccac	acggcgctcc	1380
gtgagctgcg	cgtgatcctg	atggagaagt	ctctgatcat	ggaggagaac	aaggaggagg	1440
tggagcggca	gctcctggag	ctcaacctca	cgctgcaga	cctgcagggt	ggcatgccga	1500
cctcatcaag	tacgtgaagg	actgcaattg	ccagaagctc	tatttagacc	tggaacgtcat	1560
ccgggagggc	agagggacgc	cacgcgtgcc	ctggaggaga	cccagggtgag	cctggacgar	1620
cggnggcaag	ctggac					1636

<210> 435
 <211> 645
 <212> DNA
 <213> Homo sapiens

<400> 435

tcgacccacg	cgctccgcaa	aagcagacat	agcttcagat	gcagcttgat	ccagggtca	60
gatgccatga	tcagaatcca	attcttgcac	ctgtttcttt	gggttggtt	cattttcagg	120
cagccccctt	cctcatatcc	tcaagatggc	agagacagc	catggctttt	cccttgacga	180
gacagatcac	caggaaacaa	tacctctatc	cctagccatg	aaacagtctt	gaactttatt	240
ctgacttgat	cagccaagtc	cctgttgga	ccatcactgc	ctagcttagg	cctgagacag	300
tgctgcacct	ctactaccaa	aggccgggct	ggccttcctt	aaagtgtatg	tgctgcgtgg	360
gggagaggta	cggatctgaa	ccaaaacgag	ggctgtccag	cgtcagcaaa	tatctccgcg	420
agtcccagtg	cctccagcag	gaggcaaagc	atcaaccctt	ccgtctggct	cctctactga	480
aaattccctc	agcagcctca	caggccttag	gcttgtctta	gctacttctt	catctacttt	540
tttgctttct	taattatatt	tcttttcttt	tttcttattt	tattttattt	tatttttagat	600
ggagtttcgc	tccgtcgccc	aggctgaagt	gcagtttcag	acatg		645

<210> 436

<211> 1084

<212> DNA

<213> Homo sapiens

<400> 436

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ggctgaaagc	gtctctagca	gctgatatcc	ccagacttgg	atatagttcc	tcatcccatc	120
acaagtacat	cccccgagg	gcagtgcctt	atgtacctgg	aatgatgaa	aagaaaataa	180
agaagattcc	atccctgaat	gtagattgtg	cagtgtctga	ctgtgaggat	ggagtggctg	240
caaacaaaaa	gaatgaagct	cgactgagaa	tgtaaaaac	tcttgaagac	attgatctgg	300
gccctactga	aaaatgtgtg	agagtcaact	cagtttccag	tggctctggcg	gaagaagacc	360
tagagaccct	tttgcaatcc	cgggtccttc	cttccagcct	gatgctacca	aagggtgaaa	420
gtcctgaaga	aatccagtg	gcagtgtgtg	aagaaaccct	gaaggctcgg	cctcaagtag	480
gtctctttct	agatgcagtc	cgtttttgga	ggaraagact	ttcgagccac	ataggtgcam	540
caagtartaa	agaaaccctg	gatawtctct	acgcccggca	aaagattgtt	gtcatagcga	600
aagcctttgg	tctccaagcc	gtaratctgg	kgkacattga	ctttcgagat	ggarctkggc	660
tgcttagaca	gtcacgagaa	ggagcccca	tgggcttcac	tggtaaagcag	gtgattcacc	720
ctaaccaaat	tgccgtggtc	caggagcagt	tttctccttc	ccctgaaaaa	attaagtggg	780
ctgaagaact	gattgctgcc	tttaaagaac	atcaacaatt	aggaaagggg	gcctttactt	840
tccaagggag	tatgatcgac	atgccattac	tgaagcaggc	ccagaacact	gttacgctg	900
ccacctccat	caaggaaaaa	tgatctgtta	aatgaagctg	tcatcaggct	aaagggtatt	960
gaagctgcag	agggatcaac	ttgtgcttgc	cagaggacgc	caatgaagtt	tgaaacacca	1020
acaatcagag	attttgtttc	tgttcctcat	taaatcatga	gcttttgtgc	cgagaaaaaa	1080
aaaa						1084

<210> 437

<211> 1168

<212> DNA

<213> Homo sapiens

<400> 437

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ggcccatctg	ctgttggttc	ttctgctagg	gaggatgtcg	ggttcgctgc	tgcccaggc	120
cctggccctc	tcgctgttgc	tggtctctgg	ctccctcctc	ccagggccag	gcgcccgtca	180
gaacgtgaga	gtacaatctg	gacaggatca	gaagtagaga	atgaagtgtg	aagagaaagg	240
gaaagacaga	agaaaggctg	cagtagtaca	aggagaaaag	caggatgcaa	gaatgaggaa	300
tgaatctttg	tttgaggagc	atccggaaaa	atataagctg	tcagaaaagag	taaatagacc	360
agggacctct	aaagtaaatt	cacacatcaa	agttaaaata	atgttggaga	atcacctcct	420
gtgaaaaatt	ggcttagctt	tcagtatgcc	tctttaaaca	aaacattatc	attttataca	480
aatttttaaa	atgttggttc	taatatggag	tttaatttta	agcaccttag	aaatgcatt	540
tgtagcttg	tttgtgaaat	ttttatggat	tttttttttc	aaaattccta	attttagttg	600
gtaaggatta	acttcgggaa	gacaggaaac	ccctccagta	aaattaattg	gttataaatg	660
gttacatatt	ttaggcttat	atacataaca	aaacttctaa	ctgaatttaa	aagtgtctct	720
gtgtaaaaac	attattctag	tgatattgat	gtctaaaattt	aaaagagtga	atacacaagt	780

aaaatatatc	tgcttttttaa	ggatctatct	agtttaggaa	ggagagtcaa	aatttgtatt	840
taattttcaat	ttattatatt	gtctgaaact	gaaagtaggc	ctaacttttg	tttgcttttg	900
tgtatgtaca	aaggcaaaaca	tttatcaatc	aactcttatt	aatttggat	tattttgacc	960
tgattgctca	gaacttttgt	ctatctgtat	agaaatgggg	ttttctaaat	atttaaagaa	1020
tttcctacgt	atgtaaattt	acttgcacac	agtaagttag	gggagacatt	taatattcct	1080
cagatacctg	ctgttttctt	gttgtgtttc	ttgtttttca	aataaataaa	ctgagtgtta	1140
tctgttcatt	aaaatagaat	gtagtcag				1168

<210> 438
 <211> 1776
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1748)..(1748)
 <223> n equals a,t,g, or c

<400> 438						
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atcctcacag	catggttcta	attaactttc	tagctctatt	tcccttttcc	tgctccctct	120
ctctacaact	agtctttctc	tgattgcccc	gccctcaacc	catctaaact	agaccccagg	180
gaagcacctt	gggtcccttc	ctctctccca	ctcaccatcc	aaccaatcac	cagagcctgt	240
acattctata	ttttcaacat	cgattcaatt	gtctacttct	ttctagcctg	ccctctctga	300
ctgggactcc	ttgagccagc	ctgatcaccc	caatccatcc	ctcacactgt	gcccactctt	360
ctgaagtagg	aatctgatca	caccamcctg	ctaaaaacac	tctggttctc	cccacggcat	420
gtggtgccct	tgtatagctg	gcaaagcctt	gcatgcacg	gccccagcct	gtgcttcaac	480
tcaattgccc	gactctctcc	agctctgctg	agccaccta	gtcacagatg	gtttctcctc	540
tcatctctgc	tctcttccat	gtgccatttc	tgtggcttgg	aatgttcttc	cctcattctc	600
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gatccgtaag	gacagggatc	gagttttttt	tcttttaatk	cactgcctca	aaaatcctct	840
gtgcattacc	tattcatcct	cttctctccc	ttaacctgaa	ccagtgatct	tactgtctcc	900
atcattgttt	ttttcttttc	ttttcttttc	tttttttttt	ttgaggtgga	gtctggctct	960
tcacccaggc	tggagtgcag	tgatgcgac	tcgactcact	gcaacctcca	tctcctgggt	1020
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ccccaaacta	tttttgccct	cataattytg	ccttttstag	aatgtcatac	aggtggaatt	1140
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agacagggtc	ttgctctgtc	gcccaggcta	gagtgtgggt	gtgcgatctt	agctcactga	1260
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acaggcacgt	gccaccatac	ccggctaatt	tgtggatttt	tagtacagac	gsggtttcgt	1380
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caaagtgttg	cgattacagg	tgtgagccac	tgcgccaagc	ctcatttagt	aatagcatt	1500
taaactttct	ccatgkcttt	aatggcttga	tagctcattt	atttttatca	wggaatattt	1560
cattgtctgg	atggaccaca	gtttatttct	ccattcacct	actgaaggac	atctcggttg	1620
cttctaagtt	ttggcaatta	tgaataaagc	tgctataacc	atcaagtgca	ggtttttttg	1680
tggacctatt	atcaacta	tcgggtaaat	ctcaaggagt	gcaattgctg	gatccacagt	1740
aagagtgngt	ttagttttta	gtgcttggcc	attttc			1776

<210> 439
 <211> 784
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (32)..(32)
 <223> n equals a,t,g, or c

<400> 439
 ngagtntaat tgctggatca cacagtaaga gngtggttag ttttaagtgg ctgtgccatt 60
 ttgcattccc accagcaatg aatgagagtt tctgttgctc cacattctca ctaccattcg 120
 gtgttgtagc tgttttgcat tttggccatt ctagtaggtg tttacatggg atctagtcac 180
 ttgaatgggc atatgatgtg gaacatcttt ttttttttat tttwttatta ttatacttta 240
 agtttttaggg tacatgtgca caaygtgcag gttwggtaca tatgtatacatgtgccatgy 300
 tgggtgtgctg caccaytaa ctcgtcatyt agcattaggt atatctccya atgctattgg 360
 aacatctttt catgtgttta tttgccatct gtatatcttc cctgatgagt tggggatgca 420
 ttctttccat ctacagagtc ccagaaacta acatagcagt tggtagacag ttgggtgctca 480
 acaaacatca gcttaggaac tatgtcctat gtttttttgt tttttttttt ttttaaaaag 540
 gaatgtgagc tgttcccaaa acgtatgtcc ttcccccatg cctctaccct gcccttccac 600
 aaactttctg atcttcagca cacactaccc aaccatcaag gctgagactt cccgtggcca 660
 gcagtgtctc atgctggctt caagccccac agcactgctt ttttactt ctcttgtggt 720
 ttagactgtc tttagcccag caagagaatt cgatatcaag cttatcgata ccgtcgacct 780
 cgag 784

<210> 440
 <211> 699
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (30)..(30)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (46)..(46)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n equals a,t,g, or c

<400> 440
 ggttcacatg tnaaccccat ttgctggatn ctgctttgac cctgtntccc tgtactgggtg 60
 ttatgngaac cctggcacac attgctatcc cactctgaga ggmcwtgagc aaagaamccc 120

cagtrgcaga	agccacattg	tgctcaggtc	ttagttctaa	caaacaccat	tccccattaa	180
aaggaaccag	gctccttaga	gaaatggatg	attccagggc	tgtggcaggg	taggtacaag	240
atgaacctaa	agtgtcgttt	tataccagaa	agtaagaaa	tattaaagtg	tttaaaaaag	300
tgatgggagc	atatcacaag	gattcagaag	ggataccaac	tggctaaatc	tggaacaatt	360
tgatcaccaa	agtaagtaca	ataataaatt	ctaagctatt	gaagtaaagg	catttattat	420
gtgtagtaat	aataaataga	taatgagaga	gaaatgagga	ctcatgctta	cagtaaaatg	480
ccaggagctg	actggcataa	atgtggaagg	aaggctggag	tgggaaaatt	attattttgc	540
aaccatcatg	gtaattacca	gatcagataa	ggatcaacag	atgccaaatc	tagggcaaatt	600
ttgatgagga	gcagaatatt	tgcaactgtct	ttgagagttt	ctcccagaga	tcacttattt	660
gttgtaaaaa	aaaagaaaaa	aaaaaaaaaa	aaactcagag			699

<210> 441
 <211> 616
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (592)..(592)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (611)..(611)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (613)..(613)
 <223> n equals a,t,g, or c

<400> 441						
agngacagca	gttccctggc	ttctggaagg	agtgtcggtc	tatccaaaaa	atgtactaac	60
agatatgtaa	accctgatga	atacagtatg	tgttatgaga	agtggcccaa	cgaagcagct	120
catccaagtg	agatttctgaa	gttgggctgg	cgagtacacg	aatggctttc	ttactagaga	180
gaagtgggac	cctgctaata	tgtagcatgt	ggtggcatca	tggttactca	aatatcactg	240
gaacagaagg	tgaaagaaga	aatctgaaga	gaaataaaaac	aaatttttcg	cggttccaag	300
atggccgaat	aggaacagct	ccagtctaca	gctcccagtg	tgagagatgc	agaagatggg	360
tgattttctgc	atttccaact	gagcaaacgg	sacaccagaa	gattatatcc	catgctggc	420
tgggaggggc	ccatgcccac	ggagcctcgc	tcattgctag	cacagcagtc	tgagatccat	480
ctgcaagggtg	ggcagtaggg	ctggsggagg	ggcaccacc	attgctgagg	cttgagtagg	540
taaacgaagc	arycaggaag	ctcgaactgg	gtggagccca	ccgcaactca	angaggcctg	600
gctacctctg	nanact					616

<210> 442
 <211> 1842
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (67)..(67)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (98)..(98)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (212)..(212)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1838)..(1838)

<223> n equals a,t,g, or c

<400> 442

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tggcttnggc	gttggcggcg	ctggcggcgg	ctcgagcngc	ctgcgsagcc	ggtaccagca	120
gttgacagaat	gaagaagagt	ctggagaacc	tgaacaggct	gcaggatgat	ctcctccacc	180
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<210> 443

<211> 1963

<212> DNA

<213> Homo sapiens

<220>

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<220>
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 tgatgtgctt tctgcccag tggttaattc tcttggtttg ctatgttaaa actgtaaata 1860
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaana aaa 1963

<210> 444
 <211> 1487
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1470)..(1470)
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<220>
 <221> misc_feature
 <222> (1487)..(1487)
 <223> n equals a,t,g, or c

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<400> 444
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<210> 445
<211> 1653
<212> DNA
<213> Homo sapiens

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<220>
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<222> (67)..(67)
<223> n equals a,t,g, or c

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<220>
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<222> (212)..(212)
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1653)..(1653)
<223> n equals a,t,g, or c

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gttgcagaat gaagaagagt ctggagaacc tgaacaggct gcaggtgatg ctctccacc 180

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<210> 446

<211> 1830

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

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<222> (97)..(97)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (211)..(211)

<223> n equals a,t,g, or c

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<222> (1813)..(1813)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1830)..(1830)

<223> n equals a,t,g, or c

<400> 446

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<210> 447
<211> 2027
<212> DNA
<213> Homo sapiens

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<220>
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<222> (294)..(294)
<223> n equals a,t,g, or c

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<220>
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<222> (1976)..(1976)
<223> n equals a,t,g, or c

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<220>
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<222> (1981)..(1981)
<223> n equals a,t,g, or c

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<220>
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<222> (1985)..(1985)
<223> n equals a,t,g, or c

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<220>
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 <222> (2021)..(2021)
 <223> n equals a,t,g, or c

<400> 447

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<210> 448
 <211> 699
 <212> DNA
 <213> Homo sapiens

<400> 448

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<210> 449
 <211> 1649
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1249)..(1249)
 <223> n equals a,t,g, or c

<400> 449						
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ggaagcagcc	ccagcatcag	ggacaggcca	ggagtgcaga	atgcatggaa	gctggtcagg	240
tcggagcctg	ggatgaagga	agcacagaga	tgcaagggtg	ccagggccca	tggaaccaag	300
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aaggattaaa	aagcatgggc	caaggctggg	ccccaggcca	ggactgggga	tacagagtgg	420
atcagtcccc	atccctgccc	ccaggtgctt	acccacaccc	attcacctca	caggtttccc	480
caccccagcc	ccttggcgag	ctcctcctca	ttcctcaaar	cgtcgctkag	gtcacgctcc	540
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ggggacaggt	gggagatgca	ggtagggtctg	actgtgcagg	gccatggtaa	gatgtgggct	1620
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<210> 450
 <211> 1570
 <212> DNA
 <213> Homo sapiens

<400> 450						
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gccccagcat	cagggacagg	ccaggagtgc	agaatgcagt	gaagctggtc	aggtcggagc	180
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gatcaaggcc	acagtgcaca	cagccctgga	ggcaaaggac	atattcattt	cacaaggatt	300
aaaaagcatg	ggccaaggct	gggccccagg	ccaggactgg	ggatacagag	tgatcagtc	360
cccatccctg	cccccagggtg	cttaccacac	cccattcacc	tcacagggtt	ccccacccca	420
gccccttggc	gagctcctcc	tcattcctca	aaacgtcgct	gaggcacgc	tccttcccga	480

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caggggtgcc						1570

<210> 451
 <211> 774
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (618)..(618)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (715)..(715)
 <223> n equals a,t,g, or c

<400> 451						
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ttctccctgc	tttccccaag	ccaccgcct	tgaatctggg	gtgctctacc	agacccatcc	180
cctcatttct	aaagatttga	gccactagtc	gtgtccctct	ccctcagaaa	tgcttgggtg	240
acacttggct	gctttcaact	cttccacca	tctgcctctt	ggtctcatct	ttaccttctg	300
ctaaagggtc	tgacccccac	cacgccacg	ccatggggca	ccccatggtg	gtgcgtcctt	360
gggagcagct	ctgtcccttt	ccccgtggcc	tttgccccgc	ctcctatgac	ttcgattccc	420
acctgtcccc	gacccctggg	accactgacc	gggcccgatc	accctgtcac	tgccctgtca	480
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gaggcttycc	gtcgctcctg	gacactrmag	gctgagcccg	ctgccccgcc	gcctccatga	600
ggaaggcttt	tcctctgnga	gccccaggcc	accctttccc	tcctttaagt	aattacttaa	660
gtcccttgcc	agggccctcc	cagtaccctt	tctaaagaca	ccccgcccc	agcangctgc	720
aggctcctgc	tccactttcc	tctcaggccc	tcgtcgctgt	ggtgctgcct	ttga	774

<210> 452
 <211> 1396
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1187)..(1187)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1325)..(1325)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1327)..(1327)
 <223> n equals a,t,g, or c

<400> 452

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gctggagagc	cagaaagagc	cctgcagcct	gggcctcatc	atcacacctc	gccctcaagg	180
cctccaggca	cagcatccac	tgccagcctc	tgctcctgcc	tctgagggtc	tgtctccaag	240
gtcttttggg	ggctgcccc	gctcccccaa	cacagacagc	accagagctg	ggccccacctg	300
tgaggtgctg	agttccccat	ctcagagact	gtggagcag	aggcaggag	gcgcttgatg	360
tcggatggag	aaaggacagg	ggaggggtgt	ggggctcagg	gccccgccag	gtgaagggaac	420
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rcctcgaatg	ccaggcagg	ccaagctggg	cccagaagt	ggawggwtcc	cttggctgcc	540
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<210> 453
 <211> 1397
 <212> DNA
 <213> Homo sapiens

<400> 453

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aaaaaaaggg	cggccgc					1397

<210> 454
 <211> 1368
 <212> DNA
 <213> Homo sapiens

<400> 454						
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cccagccccc	tgtctctttg	gactctactt	ctgtttgcag	ccccatttgg	cctgctgggg	120
gagaagaccc	gccagctgct	tgagtttgac	agcaccaacg	tgtccgatac	ggcagcaaag	180
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gccagggccc	tgactgcccc	tcaatgcagg	agcagcactc	catcgacgat	gaatatgcac	540
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ggcgaccagt	ggcttactcc	cagaagccgg	ggggccgaga	atcagccctg	ccctgccaag	660
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<210> 455
 <211> 1763
 <212> DNA
 <213> Homo sapiens

<400> 455						
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gaagatccct	tttgcagctt	ctgacctcc	gactgctgag	gtgccagagg	cctgctaaag	300
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gaaccttgtg	gtccagcagg	aaatccgaat	tgcccatatg	ctcttgggcc	tcaggaagag	660
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aaaaaaaaaa	aaaaaaaaaa	aaa				1763

<210> 456
 <211> 1274
 <212> DNA
 <213> Homo sapiens

<400> 456						
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gtttctgttt	tttattttta	ttccacatt	gggcacaaga	atcagaatat	ggatagctag	180
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gatttccatt	ctaaatacct	tattttgagg	gatttataaa	acttagttgt	aaaagagaaa	780
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aaaaattata	taaactgtta	aaataaatac	acctcaggct	acctgctgta	ttctgtccca	1140
ttgaccctctg	gaattggatt	tactgcaagt	gattgataat	tcaattatgt	ggcttttccc	1200
ctttaatctt	gccattttaa	ttacagtaga	aagacaaaat	caagtaaaat	aaagtgttag	1260
ataatagaaa	gagt					1274

<210> 457
 <211> 1124
 <212> DNA
 <213> Homo sapiens

<400> 457

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<210> 458
 <211> 2409
 <212> DNA
 <213> Homo sapiens

<400> 458

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 <211> 876
 <212> DNA
 <213> Homo sapiens

<400> 459						
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<210> 460
 <211> 1586
 <212> DNA
 <213> Homo sapiens

<400> 460						
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tagatcaata	tttataagta	tataattttc	ttgattgaat	cctaaagtga	aacagtaaag	240
ataatgtagg	attttttacc	aaaacttggt	aagaagttat	aacacttaat	tcaaaactaa	300
agtctttagt	tatgtgtttc	ttacaatatt	tcattgtatg	ttcacttgat	cttgatatgt	360
gttataatcc	cctgatcaca	gcttcagtga	tattccagca	aaaagtgagc	aaaaarcaa	420
gcattaaaga	aacagttcta	aattatattt	acctcaatta	atgaacttt	tttatgtgta	480
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aaaattaaa	ggctcaattg	gtaaataaag	agataccaaa	cttttcattc	tattcccat	660
gaatcatttc	acagtcatag	cttagagaca	ctaaagtgtg	ctcttaagga	tgtgaacgtt	720
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<210> 461
 <211> 1011
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n equals a,t,g, or c

<400> 461						
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aaaaaatgca	ttttaataaa	aacaaatcta	tactgaagtc	attttccttt	gtgagaggaa	180
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<210> 462
 <211> 427
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (230)..(230)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (290)..(290)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature

<222> (338)..(338)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (381)..(381)
 <223> n equals a,t,g, or c

<400> 462
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 ttcccc 427

<210> 463
 <211> 1500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (8)..(9)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (417)..(417)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1431)..(1432)
 <223> n equals a,t,g, or c

<400> 463
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 ccccaacccg gcaccagcaa atgccctcct agatgggggtc aagccccagg aggaccccaa 180
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<210> 464
 <211> 1234
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1058)..(1058)
 <223> n equals a,t,g, or c

<400> 464		
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<210> 465
 <211> 1395
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1338)..(1338)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1382)..(1384)
 <223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (1390)..(1390)
 <223> n equals a,t,g, or c

<400> 465
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 gccgctggcc gccgcgcggc cggggccctac ttccgtcccc gccggggctg ccgcctgccc 120
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 cnnnccttgn aagat 1395

<210> 466
 <211> 270
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (260)..(260)
 <223> n equals a,t,g, or c

<400> 466
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<220>
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 <223> n equals a,t,g, or c

<400> 467

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 <212> DNA
 <213> Homo sapiens

<400> 468						
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2522

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<212> DNA
<213> Homo sapiens

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<211> 4344
<212> DNA
<213> Homo sapiens

<220>
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<222> (754)..(754)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2242)..(2242)
<223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<211> 2361

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

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<222> (2356)..(2356)

<223> n equals a,t,g, or c

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<211> 1739

<212> DNA

<213> Homo sapiens

<400> 474

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 <211> 438
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (351)..(351)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (436)..(436)
 <223> n equals a,t,g, or c

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<210> 476
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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (462)..(462)
 <223> n equals a,t,g, or c

<220>
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 <222> (498)..(498)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (520)..(520)
 <223> n equals a,t,g, or c

<400> 476
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 aaaatacagt ttggaactta aataaactat tgatcaattc tggctttatg ctagaaggaa 300
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acagtagaaa	gtgaatgtag	gagcttctga	cccagcactc	angaacgcaa	ttcatcccta	480
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<210> 477
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 <222> (5)..(5)
 <223> n equals a,t,g, or c

<220>
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 <222> (17)..(17)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> n equals a,t,g, or c

<220>
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 <222> (36)..(36)
 <223> n equals a,t,g, or c

<220>
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 <222> (107)..(107)
 <223> n equals a,t,g, or c

<220>
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 <222> (150)..(150)
 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <222> (1337)..(1337)
 <223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1343)..(1343)

<223> n equals a,t,g, or c

<400> 477

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<211> 912

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (36)..(36)

<223> n equals a,t,g, or c

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<221> misc_feature

<222> (93)..(93)

<223> n equals a,t,g, or c

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<222> (158)..(158)

<223> n equals a,t,g, or c

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<222> (592)..(592)

<223> n equals a,t,g, or c

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<210> 479
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<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<220>
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<222> (1142)..(1142)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1162)..(1162)
<223> n equals a,t,g, or c

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agtgtgactg tgattctttc tctccttttg tctttcagca aacggggatt cagcgtccga      180
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cagctggtca atgtggacat ccaggacaac cacgaggagg ccaccctggg ggcgtttctc      540
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<210> 480
 <211> 1775
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

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ccaggtcgct	900
gtggatgagt	960
ggcggttatc	1020
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tcagagcgca	1260
cctgtaggac	1320
actcaggaca	1380
gcagcccagg	1440
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 <212> DNA
 <213> Homo sapiens

<220>
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<222> (14)..(14)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
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<220>
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 <222> (105)..(105)
 <223> n equals a,t,g, or c

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<210> 482
 <211> 2052
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (2045)..(2045)
 <223> n equals a,t,g, or c

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<210> 483
 <211> 1237
 <212> DNA
 <213> Homo sapiens

<400> 483						
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<210> 484
 <211> 1681
 <212> DNA
 <213> Homo sapiens

<400> 484

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<210> 485

<211> 1863

<212> DNA

<213> Homo sapiens

<400> 485

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<210> 486

<211> 1134

<212> DNA

<213> Homo sapiens

<400> 486

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<210> 487

<211> 626

<212> DNA

<213> Homo sapiens

<400> 487

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<210> 488
<211> 152
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (41)..(41)
<223> n equals a,t,g, or c

<400> 488
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<210> 489
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (1748)..(1748)
<223> n equals a,t,g, or c

<400> 489
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<210> 490
 <211> 880
 <212> DNA
 <213> Homo sapiens

<400> 490						
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gaattctcca	gatttttctg	gcgcttttgc	cggacatttg	gcaaaatttt	tacaaacact	420
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gcaaaccacg	cctaccatga	gttactatta	actgttttgt	ggatatggtg	tgtccatact	720
tcagcactcg	tgaggtgtac	tgctgctaga	atgtttgagg	tatgtcaaca	catgcctctg	780
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<210> 491
 <211> 1106
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (857)..(857)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1037)..(1037)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1058)..(1058)
 <223> n equals a,t,g, or c

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ctactgaaca	agattgaaaa	acttctcagg	gaaggagaac	atggctgga	tgaacacaaa	240
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cagaatgcac	ctttctccag	caaagccaag	cttcattgtg	aagtgccaca	gatagaagtg	360
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<210> 492
 <211> 646
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (544)..(544)
 <223> n equals a,t,g, or c

<400> 492						
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<210> 493
 <211> 1590
 <212> DNA
 <213> Homo sapiens

<400> 493						
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gccgtcccat	cctggaagtg	ccagagagtg	taacaggacc	ttggaaaggg	gatgtgaatc	240
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<210> 494
 <211> 1179
 <212> DNA
 <213> Homo sapiens

<400> 494						
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<210> 495
 <211> 819
 <212> DNA
 <213> Homo sapiens

<400> 495						
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<210> 496
 <211> 1792
 <212> DNA
 <213> Homo sapiens

<400> 496						
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<210> 497
 <211> 1673
 <212> DNA
 <213> Homo sapiens

<400> 497						
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<210> 498

<211> 2084

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (775)..(775)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2080)..(2080)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2083)..(2083)

<223> n equals a,t,g, or c

<400> 498

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<211> 1501

<212> DNA

<213> Homo sapiens

<400> 499

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 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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<211> 738

<212> DNA

<213> Homo sapiens

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<221> misc_feature

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<223> n equals a,t,g, or c

<220>

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<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (718)..(718)

<223> n equals a,t,g, or c

<400> 502

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<211> 935

<212> DNA

<213> Homo sapiens

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<222> (6)..(6)

<223> n equals a,t,g, or c

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<221> misc_feature

<222> (14)..(14)

<223> n equals a,t,g, or c

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<221> misc_feature

<222> (16)..(16)

<223> n equals a,t,g, or c

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<221> misc_feature

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<223> n equals a,t,g, or c

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<221> misc_feature

<222> (95)..(95)

<223> n equals a,t,g, or c

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<221> misc_feature

<222> (101)..(101)

<223> n equals a,t,g, or c

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<221> misc_feature

<222> (139)..(139)

<223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

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 <222> (579)..(579)
 <223> n equals a,t,g, or c

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 <212> DNA
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ctcctacagg	ttgtatgtga	aattgcaaga	tgattatata	gccctgttga	atttacaacc	1080
agatcttgct	ttcaaaccat	tattagccaa	gggtttgatt	ccacacctgt	gttcatggat	1140
tttttggtat	tagacattgc	tgtaactctg	ttttcacttt	ttcatctgtt	atcttggctc	1200
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gttcatggct	gataaaaatt	acctgtcctt	aggccgagtg	cagtgcctca	cacctgtaat	1320
cccagcactt	tgggaggccg	aggtgagtag	atcacctgag	atcaggagtt	cgagaccagc	1380
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<210> 508
 <211> 1369
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1351)..(1351)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1353)..(1354)
 <223> n equals a,t,g, or c

<400> 508	
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cgtgtttgac	tccaggtgga atcgacttcg ctgcgccctc aacctcatgg ggagaagca 180
tctgaatgca	cagctatggr agaaaatccc accagtgtccc agtaccacct caccatctc 240
cacacgtatt	cctcaccgga caaactctgt gccgacatca caatgtggag tcagctatct 300
ggcagcagcc	accgtctcta catccccagt cctgctctca tctacctgca tctcccaaaa 360
tagcaaatcg	gtacagctc atggaaccac actaaatgca cagcctgctg cttcaggggc 420
gatggatcct	gtgtgcagta tgcaatccag acaagtgtcc tcttcatect catccccctc 480
cacgcctctc	ggcctttcct cggttccttc ctcccccatg tccaggaaac ctcagaaatt 540
gaaatccagc	aaatctttga ggcccaagga gtcttctggt aacagacta actgtcaaaa 600
tgccagtagc	agtaccagtg gcggctcagg aaagaaacgc aaaaacagtt cccactgtt 660
ggttcactct	tcctcctcct ctctcctcct ctccctcttct tctcattcca tgggagtctt 720
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atagcatcgg	cctcaactgt gtgacgaata aagcaaatgc ggtgaacgtc cggcatgacc 840
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caaagggttg	caaagtgcc gccrtgaaca atgtccacat gaaacacaca ggcaccatcc 1140
caggggcaca	aggactgatg aacagttccc tccttcatca ggtaggaaat ggactgtgag 1200
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ggttggttg	gttggttggt ttgtaaacag atattcagct tcatggtgtc ttcttaaaaa 1320
aaaaaaaaaa	aaaaaaaaam cycgggggttc nttnnaaagg gcccggggg 1369

<210> 509
 <211> 1598
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1067)..(1067)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1069)..(1069)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1577)..(1577)
 <223> n equals a,t,g, or c

<400> 509
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 tcatcatatg ggcacaactc tgggtgtcctt ctatggagaa aacctcaagt aaagttttat 120
 tctgcctttr aaaatgcttc caaaagtaga ccctgtcccc acacaggtca agactacaga 180
 gaaggctttg tagaaatgtg tcacctatgt acacctgcta cttacacatt tcctcttttg 240
 gaaaaatgag atacttagaa taacargaaa attaagacat actggcctgg tgccagcaga 300
 tggcttttct atagacaaac taggttagtg tggaagatat aggttaaaat aaactatgct 360
 gttttattta tcttcccaac ctgattggca gctagacttt tttaggggtct atttaatgg 420
 ccctgttttt ttcattatta tatttaatga tagggcagga tttcgatgc aagctcttgt 480
 ttctcaggct gcctgcagaa gaagtcgcta taaattatct gttgtctaca tggtagaagg 540
 cccattgact catctgatgc ttgttttgtt aatttcttta atatttttat cacggggcag 600
 tgggagggct tgggctttta gccacagctg ttttaagact tctgatctcc tgccctgcag 660
 gaataggttg gaagtcattg aatttttaca ctatagtaat ttgcattccc acataagttt 720
 gagtgttacg aaaacattcc tttaaaggga tctgtgctac acaaaatatg ccaggacctc 780
 acagacaaaag ccattgctag aaatgtcatt ccaatgatca gatctgaaa caggctgcc 840
 taaccgtttt tccttcttgt agactcagct cacctgtata tttaaactgt tcttggcatc 900
 ttgaaacacc tatttctact caggactca ttgtcctgtt actgattcac ctttctgac 960
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 aatggcgtct aaaccagct actttgcatt ccagaagttt ccattccctc caattccacc 1140
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 gagcttaaaa gatttttaca gacctaatTT tgggttccttccttggagcc atagttaccc 1260
 tgccaagaag agtagaaaat ggggttcaact cctgtttcgc tccaccaaca cctctgtgag 1320
 tctcatcatc agctgagcga tgatgcctta cagggttgcag agcactggaa ctttcctaga 1380
 gtaacggctc tgctgccagg gtttctctgg gctcattctt ccactgactt aattatgac 1440
 tatgcctaac agagccccag tacaactatt ttgcagaatg gctgttacct tagaattact 1500
 atagcacata ttgagatata gttgtactcc ctagtagata ggaactgacc ccaacaataa 1560
 actttgataa taaaganaaa aaaaaaaaaa actcgtag 1598

<210> 510
 <211> 530
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (517)..(517)
 <223> n equals a,t,g, or c

<400> 510
 gcctggcaga gagactctga aatgagggat tagaggtggt caaggagcaa gagcttcagc 60
 ctgaagacaa gggagcagtc cctgaagacg cttctactga gaggtctgcc atggcctctc 120

ttggcctcca	acttgtgggc	tacatcctag	gccttctggg	gcttttgggc	acactgggtg	180
ccatgctgct	ccccagctgg	aaaacaagtt	cttatgtcgg	tgccagcatt	gtgacagcag	240
ttggcttctc	caagggcctc	tggatggaat	gtgccacaca	cagcacaggc	atcacccagt	300
gtgacatcta	tagcaccctt	ctgggcctgc	cgtgacat	ccaggctgcc	caggccatga	360
tggtgacatc	cagtgaatc	tcctccctgg	cctgcattat	ctctgtggtg	ggcatgagat	420
gcacagtctt	ctgccaggaa	tcccagacca	aagacagagt	ggcggtagca	ggtggagtct	480
ttttcatcct	tggaagcctc	ctgggattca	ttcctgntgc	ctggaatctt		530

<210> 511
 <211> 1046
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (33)..(33)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (441)..(441)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (460)..(460)
 <223> n equals a,t,g, or c

<400> 511						
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agcttcagcc	tgcaagacaa	gggagcagtc	cctgaagacg	cttctactca	ccaagtgtgc	120
ctgacagcat	gaaatttgag	attggagagg	ctctttactt	gggcattatt	tcttccctgt	180
tctccctgat	akctggaatc	atcctctgct	tttccctgctc	atsccagaga	aatcgctcca	240
actactacga	tgcttaccaa	gcccacacctc	ttgccacaag	gagctctcca	aggcctggtc	300
aacctcccaa	agtcaagagt	gagttcaatt	cctacagcyt	gacaggggat	gtgtgaagaa	360
ccaggggcca	garctggggg	ktggctgggt	ctgtgaaaaa	cagtggacag	caccccgagg	420
ccacaggtga	gggacattac	nactggatcg	tgtcagaaagn	tgctgctgag	gatagactga	480
ctttggccat	tggattgagc	aaaggcagaa	atgggggcta	gtgtaacagcat	gcaggttg	540
aattgccaag	gatgctcgcc	atgccagcct	ttctgttttc	ctcaccttgc	tgstcccctg	600
ccctaagtcc	ccaacctca	acttgaaacc	ccattccctt	aagccaggac	tcagaggatc	660
cctttgccct	ctggttttacc	tgggactcca	tccccaaacc	cactaatcac	atcccactga	720
ctgaccctct	gtgatcaaa	accctctctc	tggctgaggt	tggctcttag	ctcattgctg	780
gggatgggaa	ggagaagcag	tggcttttgt	gggcattgct	ctaacctact	tctcaagctt	840
ccctccaaag	aaactgattg	gccctggaac	ctccatccca	ctcttgttat	gactccacag	900
tgtccagact	aattttgtgca	tgaactgaaa	taaaaccatc	ctaggtatc	cagggaacag	960
aaagcaggat	gcaggatggg	aggacaggaa	ggcagcctgg	gacatttaaa	aaaaaaaaaa	1020
aaaaaactcg	aggggggggc	cgggtac				1046

<210> 512
 <211> 819
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (786)..(786)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (819)..(819)
 <223> n equals a,t,g, or c

<400> 512
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 tatggaaacc taaatcataa ttgtttccac tgcccaatg tgttcctttt cataacattt 120
 actattcttg ctatatattat catagaacct aggaacctta gagttgacct gaatctaatt 180
 aaattttcaga cctcctggcc aaagacccta gtggaagagc aaaactaaat caacatatta 240
 ccaatctcaa gtatttctct gaggacccag accactgact ttttggtgtc attttcaggt 300
 tgatcctata actgtatggt ctacaatatc tgtgctccac cagctcagtg aggaatcaac 360
 ggaatatcaa aagtaaatat tggtcaccat ataccttttg gtactagtct acgaaataat 420
 tggctgagga actgtttcat attaaagaaa agctaaaagc aatgtgtgat cttagattag 480
 acctatgatt ggaatgtatg tatattttat atgaaaaata ttgaggaaat tgacaaaatt 540
 taaatacaga atatggatta gataatagga atgtatcaag gtcaatattt aaaaagataa 600
 tttcaacttt tattttattc agtgggtaca tgtgcagact ttgttttaca tagtacccaa 660
 cagtttttca acgcttatcc cccaccctct agtaatctgc agwgcwtatt attgycatct 720
 tcgtggctat tgtacatggg atccatactt gattttgtct tcaacatgaa cattattggt 780
 gtaganaaat gccactaagt tttkgtacgt tggcttttn 819

<210> 513
 <211> 501
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(2)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n equals a,t,g, or c

<400> 513
 nccccccaa tnatattttt ccaaattaat tccaacatag gaaggattcc accttcctag 60
 tatgttttca aattgtttca aacctgacct ctttttgatt gctctacctt ccaaaagaaa 20
 agaagggaac actaattttc ttycctgatt tacttcattg ttttcttctg ttagattaac 180
 ttacctata aaagattgtc tcttgacttt atatatatat atatgtgtgt gtgtgtgtgt 240
 gtgtgtgtgt gtgtgtgtgt gtgtgtgtat ttgaagagga catgtgcctc cataaaagga 300
 aataaaatga gagaatacat tattgatatt gtgaaatcaa aatatttgaa ttatggtttc 360
 tcaatattca aaaactcttg cagtttctgt acttatttct tctgatgcac agagtttcgg 420
 ggactacata tgtttcacaa ccaaagatat ccacttgaaa taaaaacatt ataaagttaa 480
 aaaaaaaaaa aaaaactcga g 501

<210> 514
 <211> 1162
 <212> DNA
 <213> Homo sapiens


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<400> 514
ggcacgagggc gccccgggact cttctcagtt gagagtgcgg ttcctgggca ggtttccaca      60
ccagttccctt tccgcgtcct tcggccctgg ctctggctgc ctggcggagg tggggtagca      120
tttgtcattt gcacactgct ggcttttct ttggggctgc accccgaggg aacaaatgca      180
ggatgctctg tcacccacat gtccaccacc atctggtttg ctttttggt actttgactt      240
tctccttaaa tgcttcctgt gctgagcaaa cattccacag ccagcagagc aatggagagt      300
tcatggccac tcttcccagt atcagcaagc aatttggggg gatcgtttgg aagcctcga      360
ggaaagatgt catcaggctt cctgtggctt tgccttcag catggggctc ggcttgcttt      420
cacctgcctt aggaagattt ctggcttctg agctctgata tggggagaag ataagggtg      480
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tggaatgac tcacttgctg ttttctggg atctgtctcc ctcccacatg accccgtggg      600
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ttaataagga ggtagcact gagcttgggg acgtgctgtc acaccagcag gacgctgcag      720
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aggccctgta ggtcgtgcc tgttccatgt ccttctgggt tcttggggga gaaggaagct      1140
gttgaaaaaa aaaaaaaaaa aa
1162

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<210> 515
<211> 1012
<212> DNA
<213> Homo sapiens

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<400> 515
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cctgtgggt ggcccca aaaagattgcagc caaatgtggt ctcctccttg cctgccccaa      180
aggattcaaa tgctgtggtg acagctgctg ccaggagAAC gagctcttcc ctggccccgt      240
gaggatcttc gtcacatct tcctgggtcat cctgtccgtc ttttgcacat gtggcctggc      300
taagtgttc tgtcgcaact gcagagagcc ggagccagac agcccgtgg attgccgggg      360
gccctggaa ctgcccctca tcatcccccc agagaggggtg attctgaagc ccagcctggg      420
cccaactccc acagagccac cccctcccta cagcttcagg cctgaagaat ataccgggga      480
tcagaggggc attgacaacc cggccttctg agtcacctcc tgccctggaat ctgccaatca      540
gcaacctcct cccagtgcc tcttgatca agctagagac tgctggcacc ccaggaaatgt      600
ccctgcccat cctgccgtgt ctctgttcat tcttggattt aacttattac tttttctgct      660
tctgtttcca cccagctgc ctctcttctg ctgaggggtt ggctggagtg acagtttccg      720
cccaccccc agcccaagaa agaggctgcc ggaaagaaatgctgaccat tggaggtgcc      780
caacagtaga atgggctact gtgaggggtg gtaagagccc ctttctgga ggtatgcaaa      840
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ggactggatg agccctgagc cagcttccac tctacctga atagagaact cactgcacc      960
accacaaca catgataaac acatgtctc actgaaaaaa aaaaaaaaaa aa
1012

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<210> 516
<211> 754
<212> DNA
<213> Homo sapiens

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<400> 516
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ctagtggatc ccccggtctg caggaattcg gcacgagcactgcagctccc tgagcactct      120
ctacagagac gcggaccca gacatgagga ggctcctcct ggccaccagc ctgggtggtg      180
tgctgctgtg ggaggcaggt gcagtcccag caccgaaggt ccctatcaag atgcaagtca      240

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aacactggcc	ctcagagcag	gacccagaga	aggcctgggg	cgcccgtgtg	gtggagcctc	300
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ccgaggagaa	gccacgaggc	accaaggcct	ggatggagac	cgaggacacc	ctggggccgtg	420
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aagaccaaga	ccacatctac	cacccccagt	aggggctcca	ggggccatca	ctgcccccg	600
cctgtcccaa	ggcccaggct	gttgggactg	ggaccctccc	taccctgccc	cagctagaca	660
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<210> 517
 <211> 667
 <212> DNA
 <213> Homo sapiens

<400> 517						
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gcacccaagg	tccctatcaa	gatgcaagtc	aaacactggc	cctcagagca	ggacccagag	180
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	660
aaaaaaa						667

<210> 518
 <211> 2025
 <212> DNA
 <213> Homo sapiens

<400> 518						
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aggaggcgcc	ctcaggagag	gggcggggcg	tctattccag	agaccgagtg	gcaggggcgg	120
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ctcgcacctg	aggcagctcc	tgctgtgcac	ctgggggtac	agttctaata	cccgatttac	420
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acccatgctc	tgtagtgaat	cggtggaagg	gcaagtgcc	cattcattag	agaccttgta	840
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tgaccactc	ctgtggagg	ttttatatct	gcgtgatttt	cgagacaata	ctgtcagagt	1260
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atatgaccaa	agaccaacac	ttccctatgt	tggagaccca	atcagttcac	tcattcctgg	1500
tcctggggag	acgcccagcc	agtttccctc	actgagacca	cgctttgatc	cagttggccc	1560
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2184)..(2184)
 <223> n equals a,t,g, or c

<400> 521

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 <212> DNA
 <213> Homo sapiens

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 <211> 796
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<400> 523						
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<210> 524
 <211> 734
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<400> 526
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 gacacgggct ggtactggtg tggcatccar cgggactttg cmagggatga catggatttt 480
 acagagctga ttgtaactga cgacaaagga accctggcca atgacttttg gtctgggaaa 540
 gacctatcag gcaacaaaac cagaagctgc aagggtccca aagttgtccg caagctgacc 600
 gctccaggac gtccattctc atcattttgca tactgatcac gggtttgagg atcatctctg 660
 taatcagtca tttgacaaaa aggaggagaa gtcaaaggaa tagaagggtg ggcaaacactt 720
 tgaagccctt ctgcgctgtc ctgactccaa aggaaatggc tctactgaa cagatgtgac 780
 tgaagwtttt ttttaatttag ttncataaag tgatgnctac aacagawtaa tcacccatga 840
 caactggccc cacacctcag agactgattc tgatctccca ggaattctga aggacctctt 900
 atccttgaca acaatcattt gcagccagggt agcaacggcr gtagtcagag gagctatgat 960
 agaccacacc caagcaaggc tgccctcaaa taacatctca agatcttagt tcttatgcat 1020
 tccatcagtc agaagtgaag aagaggtgga gaatctkgat tgggggaccag gaaatcactt 1080
 gtattttgtt agccaataaa ttcctagcca gtgttgaatg aaaaaaaaaa aaaa 1134

<210> 527
 <211> 207
 <212> PRT
 <213> Homo sapiens

<400> 527
 Met Ile Lys His Val Ala Trp Leu Ile Phe Thr Asn Cys Ile Phe Phe
 1 5 10 15
 Cys Pro Val Ala Phe Phe Ser Phe Ala Pro Leu Ile Thr Ala Ile Ser
 20 25 30
 Ile Ser Pro Glu Ile Met Lys Ser Val Thr Leu Ile Phe Phe Pro Leu
 35 40 45
 Pro Ala Cys Leu Asn Pro Val Leu Tyr Val Phe Phe Asn Pro Lys Phe
 50 55 60
 Lys Glu Asp Trp Lys Leu Lys Arg Arg Val Thr Lys Lys Ser Gly
 65 70 75 80

<222> (13)

<223> Xaa equals any of the naturally occurring amino acids

<400> 529

Met Ala Gly Pro Arg Ala Ser Thr Gly Pro Arg Pro Xaa Cys Leu Val
1 5 10 15

Leu Phe Leu Phe Asn Phe Ile Phe Cys Phe Met Ser Val Cys Pro Pro
20 25 30

Thr Pro Thr Pro Phe Ser Val Lys Trp Gly Ala Leu Gly Glu Ser Leu
35 40 45

Leu Pro Pro Ser Leu Ser Gln Asp Leu Pro Pro Arg His Gln Pro Ser
50 55 60

Leu Trp Thr Arg Gln Arg Ala Asp Arg Val Gly Arg Gly Leu Arg Val
65 70 75 80

Ala Arg Ala Ser Pro Pro Ala Asn Gly Pro Leu Leu Arg Pro Pro Val
85 90 95

Ser Pro Cys Pro Phe Leu Lys Gln Asn Ala Leu Val Cys Lys Pro Leu
100 105 110

Asp Ala

<210> 530

<211> 49

<212> PRT

<213> Homo sapiens

<400> 530

Met Arg Leu Cys Ser Phe Thr Lys Val Pro Met Asn Leu Phe Leu Asn
1 5 10 15

Val Ile Leu Leu Lys Phe Tyr Asn Phe Leu Phe Ser Leu Ile Leu Gly
20 25 30

Lys Ser Cys Leu Ala Ser Leu Gly Leu Cys Lys Asn Asn Lys Cys Leu
35 40 45

Ser

<210> 531

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 531
 Met Val Thr Gly Phe Phe Phe Ile Leu Met Thr Val Leu Trp Phe Xaa
 1 5 10 15
 Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys
 20 25 30
 Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu
 35 40 45
 Phe Leu Ile Pro Ala Xaa Glu Ala Leu Leu Trp Glu Lys Glu
 50 55 60

 <210> 532
 <211> 49
 <212> PRT
 <213> Homo sapiens

 <400> 532
 Gly Arg Lys Gly Gly Leu Ser Gly Thr SerPhe Phe Thr Trp Phe Met
 1 5 10 15
 Val Ile Ala Leu Leu Gly Val Trp Thr Ser Val Pro Val Val Trp Phe
 20 25 30
 Asp Leu Val Val Asp Glu Gln Ile Thr Ser GlnSer Lys Gly Leu Pro
 35 40 45
 Leu

 <210> 533
 <211> 300
 <212> PRT
 <213> Homo sapiens

 <400> 533
 Met Lys Phe Leu Leu Asp Ile Leu Leu Leu Leu Pro Leu Leu Ile Val
 1 5 10 15
 Cys Ser Leu Glu Ser Phe Val Lys Leu Phe Ile Pro Lys Arg Arg Lys
 20 25 30
 Ser Val Thr Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
 35 40 45

Gly Arg Leu Thr Ala Tyr Glu Phe Ala Lys Leu Lys Ser Lys Leu Val
 50 55 60
 Leu Trp Asp Ile Asn Lys His Gly Leu Glu Glu Thr Ala Ala Lys Cys
 65 70 75 80
 Lys Gly Leu Gly Ala Lys Val His Thr Phe Val Val Asp Cys Ser Asn
 85 90 95
 Arg Glu Asp Ile Tyr Ser Ser Ala Lys Lys Val Lys Ala Glu Ile Gly
 100 105 110
 Asp Val Ser Ile Leu Val Asn Asn Ala Gly Val Val Tyr Thr Ser Asp
 115 120 125
 Leu Phe Ala Thr Gln Asp Pro Gln Ile Glu Lys Thr Phe Glu Val Asn
 130 135 140
 Val Leu Ala His Phe Trp Thr Thr Lys Ala Phe Leu Pro Ala Met Thr
 145 150 155 160
 Lys Asn Asn His Gly His Ile Val Thr Val Ala Ser Ala Ala Gly His
 165 170 175
 Val Ser Val Pro Phe Leu Leu Ala Tyr Cys Ser Ser Lys Phe Ala Ala
 180 185 190
 Val Gly Phe His Lys Thr Leu Thr Asp Glu Leu Ala Ala Leu Gln Ile
 195 200 205
 Thr Gly Val Lys Thr Thr Cys Leu Cys Pro Asn Phe Val Asn Thr Gly
 210 215 220
 Phe Ile Lys Asn Pro Ser Thr Ser Leu Gly Pro Thr Leu Glu Pro Glu
 225 230 235 240
 Glu Val Val Asn Arg Leu Met His Gly Ile Leu Thr Glu Gln Lys Met
 245 250 255
 Ile Phe Ile Pro Ser Ser Ile Ala Phe Leu Thr Thr Leu Glu Arg Ile
 260 265 270
 Leu Pro Glu Arg Phe Leu Ala Val Leu Lys Arg Lys Ile Ser Val Lys
 275 280 285
 Phe Asp Ala Val Ile Gly Tyr Lys Met Lys Ala Gln
 290 295 300

<210> 534
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 534

Met Cys Tyr Leu Leu Leu Leu Ile Gln Thr Ala Glu Leu Leu Ile
 1 5 10 15
 His Pro Gln Gly Leu Gln Ala Val Ser Asn Gly Glu Ser Ala Leu Lys
 20 25 30
 Gly Thr Arg Pro Thr Phe Ser Ser Pro Phe Ile Leu Val Thr Glu Gly
 35 40 45
 Arg Lys Glu Trp Glu Gly Val Phe Leu Ser Ser Gly Trp Lys Gly Asn
 50 55 60
 Thr Leu Ser Asn Tyr Tyr Ile Ser Leu Val Phe Tyr Tyr Ser Arg Ile
 65 70 75 80
 Leu Gln Pro Tyr Phe Tyr Cys Leu Trp Gly Lys Leu Glu Met Val Thr
 85 90 95
 Leu Ile Arg Ser Val Trp Arg Gly Ile Asn Gly Gly Asp Lys Ile Gln
 100 105 110
 Leu Val Leu Glu Asn Val Lys Val Leu Lys
 115 120

<210> 535
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 535
 Met Glu His Leu Ile Arg Ser Gly Val Lys Ile Leu Phe Leu Asn Leu
 1 5 10 15
 Leu Leu Thr Ser Cys Thr Thr Leu Asn Glu Trp Leu Asn Phe Leu Val
 20 25 30
 Thr Leu Asn Cys Ser Arg Tyr Lys Met Thr Gly
 35 40

<210> 536
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 536
 Met Asn Leu Ser Ile Ile Leu Pro Asn Ser Phe Xaa His Leu Cys Asn
 1 5 10 15

Phe Ser Leu Phe Leu Leu Pro Leu Pro Val Pro Ser Gln Pro Leu Ile
 20 25 30
 Cys Ser Gly Asn Tyr Gln Ser Ser Phe Cys His Tyr Arg Leu Ile Cys
 35 40 45
 Ile Phe Lys Glu Ile Tyr Ile His Gly Thr Ile His His Leu Cys Phe
 50 55 60
 Val Val
 65

<210> 537
 <211> 140
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (129)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 537
 Met Phe Phe Ser Leu Pro Gly Leu Trp Gln Ile Ala Ser Phe Thr His
 1 5 10 15

Asn Leu Ile Phe His Leu Trp Val Trp Gly Ser Glu Ser Gly Glu His
 20 25 30

Leu Gln Ser His Asn Asp Pro Asp Thr Arg Gln Gly Gly His Ile Pro
 35 40 45

Ile Arg Leu Leu Gly Glu Ser Ser Ala Ser Val Pro Gly Ser Ser Gl
 50 55 60

Gly His Thr Gly Gly Pro Ala Pro Pro Arg Val Gly Gly Ser Ala Gly
 65 70 75 80

Ile Ile Arg Thr His Val Val Phe Leu Val Ser Trp Pro Leu Leu Gln
 85 90 95

Arg Glu Gln His Arg Leu Ser Trp Lys Leu Pro Ser Val Met Trp Gly
 100 105 110

Asp Ser Arg Glu Pro His Leu Ala Arg Leu Asp Gln Ser Lys Trp Pro

115 120 125
 Xaa Ala Thr Xaa Ala Xaa Gln Tyr Leu Gly Arg Gly
 130 135 140

<210> 538
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 538
 Met His Phe Phe Val Glu Ser Thr Ile Val Ser Asp Thr Leu Ile Thr
 1 5 10 15
 Leu Ser Asn Leu Thr Phe His Lys Cys Pro Glu Tyr Glu Asn Ile Ile
 20 25 30
 Gln Asp Leu Asn Thr Asn Tyr Gln Asn Leu Gln Leu Ser Asn Gly Arg
 35 40 45
 Leu Arg Phe Met Leu Cys His Val Phe Ser Ser Phe Leu Phe Val Met
 50 55 60
 Val Phe Gln Ile Val Glu Lys Glu Asn Ile Leu Phe Val Ile Ala Ser
 65 70 75 80
 Ala Ser Tyr Phe Cys Lys Thr Asn Tyr Ser Asn Ser Val Val
 85 90

<210> 539
 <211> 563
 <212> PRT
 <213> Homo sapiens

<400> 539
 Met Trp Ala Val Leu Arg Leu Ala Leu Arg Pro Cys Ala Arg Ala Ser
 1 5 10 15
 Pro Ala Gly Pro Arg Ala Tyr His Gly Asp Ser Val Ala Ser Leu Gly
 20 25 30
 Thr Gln Pro Asp Leu Gly Ser Ala Leu Tyr Gln Glu Asn Tyr Lys Gln
 35 40 45
 Met Lys Ala Leu Val Asn Gln Leu His Glu Arg Val Glu His Ile Lys
 50 55 60
 Leu Gly Gly Gly Glu Lys Ala Arg Ala Leu His Ile Ser Arg Gly Lys
 65 70 75 80
 Leu Leu Pro Arg Glu Arg Ile Asp Asn Leu Ile Asp Pro Gly Ser Pro
 85 90 95

Phe Leu Glu Leu Ser Gln Phe Ala Gly Tyr Gln Leu Tyr Asp Asn Glu
100 105 110
Glu Val Pro Gly Gly Gly Ile Ile Thr Gly Ile Gly Arg Val Ser Gly
115 120 125
Val Glu Cys Met Ile Ile Ala Asn Asp Ala Thr Val Lys Gly Gly Ala
130 135 140
Tyr Tyr Pro Val Thr Val Lys Lys Gln Leu Arg Ala Gln Glu Ile Ala
145 150 155 160
Met Gln Asn Arg Leu Pro Cys Ile Tyr Leu Val Asp Ser Gly Tyr Ala
165 170 175
Tyr Leu Pro Arg Gln Ala Asp Val Phe Pro Asp Arg Asp His Phe Gly
180 185 190
Arg Thr Phe Tyr Asn Gln Ala Ile Met Ser Ser Lys Asn Ile Ala Gln
195 200 205
Ile Ala Val Val Met Gly Ser Cys Thr Ala Gly Gly Ala Tyr Val Pro
210 215 220
Ala Met Ala Asp Glu Asn Ile Ile Val Arg Lys Gln Gly Thr Ile Phe
225 230 235 240
Leu Ala Gly Pro Pro Leu Val Lys Ala Ala Thr Gly Glu Glu Val Ser
245 250 255
Ala Glu Asp Leu Gly Gly Ala Asp Leu His Cys Arg Lys Ser Gly Val
260 265 270
Ser Asp His Trp Ala Leu Asp Asp His His Ala Leu His Leu Thr Arg
275 280 285
Lys Val Val Arg Asn Leu Asn Tyr Gln Lys Lys Leu Asp Val Thr Ile
290 295 300
Glu Pro Ser Glu Glu Pro Leu Phe Pro Ala Asp Glu Leu Tyr Gly Ile
305 310 315 320
Val Gly Ala Asn Leu Lys Arg Ser Phe Asp Val Arg Glu Val Ile Ala
325 330 335
Arg Ile Val Asp Gly Ser Arg Phe Thr Glu Phe Lys Ala Phe Tyr Gly
340 345 350
Asp Thr Leu Val Thr Gly Phe Ala Arg Ile Phe Gly Tyr Pro Val Gly
355 360 365
Ile Val Gly Asn Asn Gly Val Leu Phe Ser Glu Ser Ala Lys Lys Gly
370 375 380
Thr His Phe Val Gln Leu Cys Cys Gln Arg Asn Ile Pro Leu Leu Phe
385 390 395 400

Leu Gln Asn Ile Thr Gly Phe Met Val Gly Arg Glu Tyr Glu Ala Glu
 405 410 415
 Gly Ile Ala Lys Asp Gly Ala Lys Met Val Ala Ala Val Ala Cys Ala
 420 425 430
 Gln Val Pro Lys Ile Thr Leu Ile Ile Gly Gly Ser Tyr Gly Ala Gly
 435 440 445
 Asn Tyr Gly Met Cys Gly Arg Ala Tyr Ser Pro Arg Phe Leu Tyr Ile
 450 455 460
 Trp Pro Asn Ala Arg Ile Ser Val Met Gly Gly Glu Gln Ala Ala Asn
 465 470 475 480
 Val Leu Ala Thr Ile Thr Lys Asp Gln Arg Ala Arg Glu Gly Lys Gln
 485 490 495
 Phe Ser Ser Ala Asp Glu Ala Ala Leu Lys Glu Pro Ile Ile Lys Lys
 500 505 510
 Phe Glu Glu Glu Gly Asn Pro Tyr Tyr Ser Ser Ala Arg Val Trp Asp
 515 520 525
 Asp Gly Ile Ile Asp Pro Ala Asp Thr Arg Leu Val Leu Gly Leu Ser
 530 535 540
 Phe Ser Ala Ala Leu Asn Ala Pro Ile Glu Lys Thr Asp Phe Gly Ile
 545 550 555 560
 Phe Arg Met

<210> 540
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 540
 Met Val Gln Phe Glu Val Ile Phe Leu Leu Phe Gly Leu Cys Phe Ser
 1 5 10 15
 Ser Ser Ser Ser Arg Leu Val Gly Ser Gln Val Glu Asn Phe Ser Pro
 20 25 30
 Thr Pro Cys Ile Phe Gln Ala Phe Arg Cys Ser Ser Leu Ala Ile Ile
 35 40 45
 Ser Met Ser Leu Ser
 50

<210> 541
 <211> 421

Pro Gln Asp Ala Leu Ser Gln Glu Val Ser Pro Glu Val Trp Lys Asp
 290 295 300
 Val Gln Leu Ser Thr Ile Glu Leu Ser Ile Thr Thr Arg Asn Asn Gln
 305 310 315 320
 Leu Asp Pro Thr Ser Lys Glu Asp Phe Leu Asn Ile Cys Ile Glu Pro
 325 330 335
 Asp Thr Ile Ser Lys Gly Asp Phe Ile Thr Ile Gly Ser Arg Lys Val
 340 345 350
 Arg Asn Pro Lys Leu His Val Glu Gly Thr Glu Cys Leu Gln Ala Ser
 355 360 365
 Gln Cys Thr Leu Leu Ile Pro Glu Gly Ala Gly Gly Ser Phe Ser Ile
 370 375 380
 Asp Ser Glu Glu Tyr Glu Ala Met Pro Val Glu Val Lys Leu Leu Pro
 385 390 395 400
 Arg Lys Leu Gln Phe Phe Cys Asp Pro Arg Lys Arg Glu Gln Met Leu
 405 410 415
 Thr Ser Pro Thr Gln
 420

<210> 542
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 542
 Met Pro Ser Ser Trp Leu Pro Gly Cys Phe Val Leu Leu Cys Leu Val
 1 5 10 15
 Ala Val Gly Cys Gln Leu Arg Glu Trp Gly Val Gly Gly Val Ser Ala
 20 25 30
 Val Gly Leu Leu Ala Leu Pro His Leu Gln Val Leu Gly Met Arg Gly
 35 40 45
 Arg Gly Leu Ile Ser Gly Gly
 50 55

<210> 543
 <211> 242
 <212> PRT
 <213> Homo sapiens

<400> 543
 Met Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys

1	5	10	15
Phe Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys	20	25	30
Pro Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val	35	40	45
Leu Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala	50	55	60
Leu Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile	65	70	75
Gly Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser	85	90	95
Arg Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala	100	105	110
Gly Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr	115	120	125
Gly Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu	130	135	140
Gln His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly	145	150	155
Gly Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala	165	170	175
Leu Ala Phe Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu	180	185	190
Ala Val Leu Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala	195	200	205
Tyr Trp His Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu	210	215	220
Leu Gly Glu Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr	225	230	235
Asp Gly			240

<210> 544
 <211> 189
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (94)

<223> Xaa equals any of the naturally occurring amino acids

<400> 544

Met Ala Leu Leu Ser Arg Pro Ala Leu Thr Leu Leu Leu Leu Leu Met
1 5 10 15
Ala Ala Val Val Arg Cys Gln Glu Gln Ala Gln Thr Thr Asp Trp Arg
20 25 30
Ala Thr Leu Lys Thr Ile Arg Asn Gly Val His Lys Ile Asp Thr Tyr
35 40 45
Leu Asn Ala Ala Leu Asp Leu Leu Gly Gly Glu Asp Gly Leu Cys Gln
50 55 60
Tyr Lys Cys Ser Asp Gly Ser Lys Pro Phe Pro Arg Tyr Gly Tyr Lys
65 70 75 80
Pro Ser Pro Pro Asn Gly Cys Gly Ser Pro Leu Phe Gly Xaa His Leu
85 90 95
Asn Ile Gly Ile Pro Ser Leu Thr Lys Cys Cys Asn Gln His Asp Arg
100 105 110
Cys Tyr Glu Thr Cys Gly Lys Ser Lys Asn Asp Cys Asp Glu Glu Phe
115 120 125
Gln Tyr Cys Leu Ser Lys Ile Cys Arg Asp Val Gln Lys Thr Leu Gly
130 135 140
Leu Thr Gln His Val Gln Ala Cys Glu Thr Thr Val Glu Leu Leu Phe
145 150 155 160
Asp Ser Val Ile His Leu Gly Cys Lys Pro Tyr Leu Asp Ser Gln Arg
165 170 175
Ala Ala Cys Arg Cys His Tyr Glu Glu Lys Thr Asp Leu
180 185

<210> 545

<211> 264

<212> PRT

<213> Homo sapiens

<400> 545

Met Leu Arg Cys Gly Gly Arg Gly Leu Leu Leu Gly Leu Ala Val Ala
1 5 10 15
Ala Ala Ala Val Met Ala Ala Arg Leu Met Gly Trp Trp Gly Pro Arg
20 25 30
Ala Gly Phe Arg Leu Phe Ile Pro Glu Glu Leu Ser Arg Tyr Arg Gly
35 40 45
Gly Pro Gly Asp Pro Gly Leu Tyr Leu Ala Leu Leu Gly Arg Val Tyr

50	55	60
Asp Val Ser Ser Gly Arg Arg His Tyr Glu Pro Gly Ser His Tyr Ser		
65	70	75 80
Gly Phe Ala Gly Arg Asp Ala Ser Arg Ala Phe Val Thr Gly Asp Cys		
	85	90 95
Ser Glu Ala Gly Leu Val Asp Asp Val Ser Asp Leu Ser Ala Ala Glu		
	100	105 110
Met Leu Thr Leu His Asn Trp Leu Ser Phe Tyr Glu Lys Asn Tyr Val		
	115	120 125
Cys Val Gly Arg Val Thr Gly Arg Phe Tyr Gly Glu Asp Gly Leu Pro		
	130	135 140
Thr Pro Ala Leu Thr Gln Val Glu Ala Ala Ile Thr Arg Gly Leu Glu		
	145	150 155 160
Ala Asn Lys Leu Gln Leu Gln Glu Lys Gln Thr Phe Pro Pro Cys Asn		
	165	170 175
Ala Glu Trp Ser Ser Ala Arg Gly Ser Arg Leu Trp Cys Ser Gln Lys		
	180	185 190
Ser Gly Gly Val Ser Arg Asp Trp Ile Gly Val Pro Arg Lys Leu Tyr		
	195	200 205
Lys Pro Gly Ala Lys Glu Pro Arg Cys Val Cys Val Arg Thr Thr Gly		
	210	215 220
Pro Pro Ser Gly Gln Met Pro Asp Asn Pro Pro His Arg Asn Arg Gly		
	225	230 235 240
Asp Leu Asp His Pro Asn Leu Ala Glu Tyr Thr Gly Cys Pro Pro Leu		
	245	250 255
Ala Ile Thr Cys Ser Phe Pro Leu		
	260	

<210> 546
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 546
 Met Pro Leu Phe Leu Phe Val Ala His Leu Ile Ser Leu Leu Leu Ala
 1 5 10 15
 Phe Arg Arg Pro Pro Ala Ser Gln Ile Thr Pro Arg Ala Trp Tr Thr
 20 25 30
 Glu Ile Ala Ser Cys Glu Ser Val Glu Met Val Lys Ala Leu Ser Ser
 35 40 45

Leu Arg Ser Arg Ala Gln Val Asn Ala Asp Phe Pro Gly His Leu Cys
 50 55 60

<210> 547
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 547
 Met Leu Val Ala Pro Phe Asn Leu Leu Phe Glu Met Ala Pro Phe Asn
 1 5 10 15
 Ile Phe Leu Phe Pro Gln Trp Gly Leu Leu Trp Leu Met Leu Tyr Leu
 20 25 30
 Leu Tyr Val Phe Gln Ala Ser Leu Arg Thr Pro Glu Leu Thr Trp Glu
 35 40 45
 Arg Val Arg Ser Gln Val Asp Gln
 50 55

<210> 548
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 548
 Met Leu Val Phe Leu Leu Leu Phe Ser Thr Val Thr Val Leu Cys Leu
 1 5 10 15
 Lys Val Val Phe Ser Leu Lys Ala Val Ala Tyr Ile Val Lys Asn Glu
 20 25 30
 Gly Leu Cys Leu Lys Phe Ile Ala Leu Gln Arg Val Val Ser Leu Lys
 35 40 45
 Ser Cys Thr Ile Lys
 50

<210> 549
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 549
 Met Asn Leu Leu Gly Met Ile Phe Ser Met Cys Gly Leu Met Leu Lys
 1 5 10 15

Leu Lys Trp Cys Ala Trp Val Ala Val Tyr Cys Ser Phe Ile Ser Phe
20 25 30
Ala Asn Ser Arg Ser Ser Glu Asp Thr Lys Gln Met Met Ser Ser Phe
35 40 45
Met

<210> 550
<211> 59
<212> PRT
<213> Homo sapiens

<400> 550
Met Asn Ser Thr Leu Cys Val Val Leu Ser Leu Met Cys Met Asn Ser
1 5 10 15
Thr Leu Cys Val Val Leu Ser Leu Thr His Ser Cys Pro Ser Pro Gln
20 25 30
Val Pro Lys Val His Tyr Met Ile Phe Met Pro Leu His Leu His Ser
35 40 45
Leu Ala Leu Thr Gln Leu Ile Ile Ile Tyr Lys
50 55

<210> 551
<211> 240
<212> PRT
<213> Homo sapiens

<400> 551
Met Gly Asn Cys Gln Ala Gly His Asn Leu His Leu Cys Leu Ala His
1 5 10 15
His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu Leu Gly Leu
20 25 30
Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg Thr Gly Leu
35 40 45
Arg Ser Pro Asp Ile Pro Gln Asp Trp Val Ser Phe Leu Arg Ser Phe
50 55 60
Gly Gln Leu Thr Leu Cys Pro Arg Asn Gly Thr Val Thr Gly Lys Trp
65 70 75 80
Arg Gly Ser His Val Val Gly Leu Leu Thr Thr Leu Asn Phe Gly Asp
85 90 95
Gly Pro Asp Arg Asn Lys Thr Arg Thr Phe Gln Ala Thr Val Leu Gly

100					105					110					
Ser	Gln	Met	Gly	Leu	Lys	Gly	Ser	Ser	Ala	Gly	Gln	Leu	Val	Leu	Ile
		115					120					125			
Thr	Ala	Arg	Val	Thr	Thr	Glu	Arg	Thr	Ala	Gly	Thr	Cys	Leu	Tyr	Phe
		130					135					140			
Ser	Ala	Val	Pro	Gly	Ile	Leu	Pro	Ser	Ser	Gln	Pro	Pro	Ile	Ser	Cys
		145					150					155			160
Ser	Glu	Glu	Gly	Ala	Gly	Asn	Ala	Thr	Leu	Ser	Pro	Arg	Met	Gly	Glu
				165					170						175
Glu	Cys	Val	Ser	Val	Trp	Ser	His	Glu	Gly	Leu	Val	Leu	Thr	Lys	Leu
			180						185						190
Leu	Thr	Ser	Glu	Glu	Leu	Ala	Leu	Cys	Gly	Ser	Arg	Leu	Leu	Val	Leu
		195							200						205
Gly	Ser	Phe	Leu	Leu	Leu	Phe	Cys	Gly	Leu	Leu	Cys	Cys	Val	Thr	Ala
		210					215					220			
Met	Cys	Phe	His	Pro	Arg	Arg	Glu	Ser	His	Trp	Ser	Arg	Thr	Arg	Leu
							230					235			240

<210> 552
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 552
 Met Leu Leu Leu Leu Lys Thr Leu Phe Val Thr Phe Trp Ser Thr Asn
 1 5 10 15
 Leu Ser Ile Thr Phe Ser Asn Tyr Asn Val Lys Leu Tyr Gln Trp Gln
 20 25 30
 Ser Tyr Ile Val Asn Gly Ser
 35

<210> 553
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 553
 Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
 1 5 10 15

Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly
 20 25 30
 Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
 35 40 45
 Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
 50 55 60
 Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys
 65 70 75 80
 Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys
 85 90 95
 Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His
 100 105 110
 His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro
 115 120 125
 Val Pro Glu Ala His Ser Pro Gly Phe Asp Gly Ala Ser Phe Ile Gly
 130 135 140
 Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu
 145 150 155 160
 His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu Ile
 165 170

<210> 554
 <211> 245
 <212> PRT
 <213> Homo sapiens

<400> 554
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
 35 40 45
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
 50 55 60
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65 70 75 80
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
 85 90 95
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln

100	105	110
Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly		
115	120	125
Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr		
130	135	140
Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr		
145	150	155
Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val		
165	170	175
Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr		
180	185	190
Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln		
195	200	205
Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly		
210	215	220
His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu		
225	230	235
Ile Phe Pro Ser Ala		
245		

<210> 555
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 555
Met Tyr Leu Phe Leu Lys Thr Leu Leu Ser Phe Ser Thr Leu Met Met
1 5 10 15
Thr Thr Ala Leu Ser Phe Met Val Ile Thr Val Leu Trp Val Leu Leu
20 25 30
Leu His Leu Leu Ala Asn Ile Cys Ile Pro Arg Lys Cys Ser Phe Ala
35 40 45
Cys Phe Tyr Ile Asn Gly Ile Leu Leu His Ala Val Phe
50 55 60

<210> 556
 <211> 54
 <212> PRT
 <213> Homo sapiens
 <400> 556

Met Val Leu Ser Pro Trp Ala Cys Leu Phe Val Val Phe Phe Pro Tyr
 1 5 10 15
 Ile Gln Ser Ser Leu Arg Ser Asp Lys His Leu Gln Leu Ser Asn Ile
 20 25 30
 Leu Pro Thr Pro Ser His His Ile His Leu Pro Ala Ser Ile Cys Ile
 35 40 45
 Gln Leu Arg Ala Gly Asn
 50

<210> 557
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 557
 Met Leu Ser Leu Phe Phe Cys Phe Trp Lys Pro Ser Phe Leu Val Ser
 1 5 10 15
 Arg Leu Val Ile Trp Leu Gly Leu Val Cys Gly Gly Arg Ser Leu Ser
 20 25 30
 Trp Val Ala Leu Gly Glu Asp Tyr Leu Gly Thr Pro Ile Leu Ile Pro
 35 40 45
 Asn Ile His Gln Thr Cys Pro His Pro Pro Leu Trp Glu Leu Val Pro
 50 55 60
 Glu His Pro Cys Arg Leu Val Leu Ile Phe Ser Leu Cys Glu His Thr
 65 70 75 80
 His Ile Arg

<210> 558
 <211> 319
 <212> PRT
 <213> Homo sapiens

<400> 558
 Met Ser Trp Cys Cys Leu Trp Leu Cys Leu Ser Ser Val Gly Arg Thr
 1 5 10 15
 Gly Ser Ala Gly Pro Ser Leu Pro Phe Ser Glu Leu Cys Ser Leu Gly
 20 25 30
 Leu Leu Arg Leu Arg Pro Val Phe Ser Pro Leu His Ser Gly Pro Gly
 35 40 45
 Lys Pro Ala Gln Phe Leu Ala Gly Glu Ala Glu Glu Val Asn Ala Phe
 50 55 60

Ala Leu Gly Phe Leu Ser Thr Ser Ser Gly Val Ser Gly Glu Asp Glu
 65 70 75 80
 Val Glu Pro Leu His Asp Gly Val Glu Glu Ala Glu Lys Lys Met Glu
 85 90 95
 Glu Glu Gly Val Ser Val Ser Glu Met Glu Ala Thr Gly Ala Gln Gly
 100 105 110
 Pro Ser Arg Val Glu Glu Ala Glu Gly His Thr Glu Val Thr Glu Ala
 115 120 125
 Glu Gly Ser Gln Gly Thr Ala Glu Ala Asp Gly Pro Gly Ala Ser Ser
 130 135 140
 Gly Asp Glu Asp Ala Ser Gly Arg Ala Ala Ser Pro Glu Ser Ala Ser
 145 150 155 160
 Ser Thr Pro Glu Ser Leu Gln Ala Arg Arg His His Gln Phe Leu Glu
 165 170 175
 Pro Ala Pro Ala Pro Gly Ala Ala Val Leu Ser Ser Glu Pro Ala Glu
 180 185 190
 Pro Leu Leu Val Arg His Pro Pro Arg Pro Arg Thr Thr Gly Pro Arg
 195 200 205
 Pro Arg Gln Asp Pro His Lys Ala Gly Leu Ser His Tyr Val Lys Leu
 210 215 220
 Phe Ser Phe Tyr Ala Lys Met Pro Met Glu Arg Lys Ala Leu Glu Met
 225 230 235 240
 Val Glu Lys Cys Leu Asp Lys Tyr Phe Gln His Leu Cys Asp Asp Leu
 245 250 255
 Glu Val Phe Ala Ala His Ala Gly Arg Lys Thr Val Lys Pro Glu Asp
 260 265 270
 Leu Glu Leu Leu Met Arg Arg Gln Gly Leu Val Thr Asp Gln Val Ser
 275 280 285
 Leu His Val Leu Val Glu Arg His Leu Pro Leu Glu Tyr Arg Gln Leu
 290 295 300
 Leu Ile Pro Cys Ala Tyr Ser Gly Asn Ser Val Phe Pro Ala Gln
 305 310 315

<210> 559
 <211> 336
 <212> PRT
 <213> Homo sapiens

<400> 559

Met Ile Ser Tyr Ile Val Leu Leu Ser Ile Leu Leu Trp Pro Leu Val
1 5 10 15
Val Tyr His Glu Leu Ile Gln Arg Met Tyr Thr Arg Leu Glu Pro Leu
20 25 30
Leu Met Gln Leu Asp Tyr Ser Met Lys Ala Glu Ala Asn Ala Leu His
35 40 45
His Lys His Asp Lys Arg Lys Arg Gln Gly Lys Asn Ala Pro Pro Gly
50 55 60
Gly Asp Glu Pro Leu Ala Glu Thr Glu Ser Glu Ser Glu Ala Glu Leu
65 70 75 80
Ala Gly Phe Ser Pro Val Val Asp Val Lys Lys Thr Ala Leu Ala Leu
85 90 95
Ala Ile Thr Asp Ser Glu Leu Ser Asp Glu Glu Ala Ser Ile Leu Glu
100 105 110
Ser Gly Gly Phe Ser Val Ser Arg Ala Thr Thr Pro Gln Leu Thr Asp
115 120 125
Val Ser Glu Asp Leu Asp Gln Gln Ser Leu Pro Ser Glu Pro Glu Glu
130 135 140
Thr Leu Ser Arg Asp Leu Gly Glu Gly Glu Glu Gly Glu Leu Ala Pro
145 150 155 160
Pro Glu Asp Leu Leu Gly Arg Pro Gln Ala Leu Ser Arg Gln Ala Leu
165 170 175
Asp Ser Glu Glu Glu Glu Glu Asp Val Ala Ala Lys Glu Thr Leu Leu
180 185 190
Arg Leu Ser Ser Pro Leu His Phe Val Asn Thr His Phe Asn Gly Ala
195 200 205
Gly Ser Pro Gln Asp Gly Val Lys Cys Ser Pro Gly Gly Pro Val Glu
210 215 220
Thr Leu Ser Pro Glu Thr Val Ser Gly Gly Leu Thr Ala Leu Pro Gly
225 230 235 240
Thr Leu Ser Pro Pro Leu Cys Leu Val Gly Ser Asp Pro Ala Pro Ser
245 250 255
Pro Ser Ile Leu Pro Pro Val Pro Gln Asp Ser Pro Gln Pro Leu Pro
260 265 270
Ala Pro Glu Glu Glu Glu Ala Leu Thr Thr Glu Asp Phe Glu Leu Leu
275 280 285
Asp Gln Gly Glu Leu Glu Gln Leu Asn Ala Glu Leu Gly Leu Glu Pro
290 295 300

Glu Thr Pro Pro Lys Pro Pro Asp Ala Pro Pro Leu Gly Pro Asp Ile
 305 310 315 320

His Ser Leu Val Gln Ser Asp Gln Glu Ala Gln Ala Val Ala Glu Pro
 325 330 335

<210> 560
 <211> 272
 <212> PRT
 <213> Homo sapiens

<400> 560
 Met Trp Gly Asn Lys Phe Gly Val Leu Leu Phe Leu Tyr Ser Val Leu
 1 5 10 15

Leu Thr Lys Gly Ile Glu Asn Ile Lys Asn Glu Ile Glu Asp Ala Ser
 20 25 30

Glu Pro Leu Ile Asp Pro Val Tyr Gly His Gly Ser Gln Ser Leu Ile
 35 40 45

Asn Leu Leu Leu Thr Gly His Ala Val Ser Asn Val Trp Asp Gly Asp
 50 55 60

Arg Glu Cys Ser Gly Met Lys Leu Leu Gly Ile His Glu Gln Ala Ala
 65 70 75 80

Val Gly Phe Leu Thr Leu Met Glu Ala Leu Arg Tyr Cys Lys Val Gly
 85 90 95

Ser Tyr Leu Lys Ser Pro Lys Phe Pro Ile Trp Ile Val Gly Ser Glu
 100 105 110

Thr His Leu Thr Val Phe Phe Ala Lys Asp Met Ala Leu Val Ala Pro
 115 120 125

Glu Ala Pro Ser Glu Gln Ala Arg Arg Val Phe Gln Thr Tyr Asp Pro
 130 135 140

Glu Asp Asn Gly Phe Ile Pro Asp Ser Leu Leu Glu Asp Val Met Lys
 145 150 155 160

Ala Leu Asp Leu Val Ser Asp Pro Glu Tyr Ile Asn Leu Met Lys Asn
 165 170 175

Lys Leu Asp Pro Glu Gly Leu Gly Ile Ile Leu Leu Gly Pro Phe Leu
 180 185 190

Gln Glu Phe Phe Pro Asp Gln Gly Ser Ser Gly Pro Glu Ser Phe Thr
 195 200 205

Val Tyr His Tyr Asn Gly Leu Lys Gln Ser Asn Tyr Asn Glu Lys Val

210	215	220	
Met Tyr Val Glu Gly Thr Ala Val Val Met Gly Phe Glu Asp Pro Met			
225	230	235	240
Leu Gln Thr Asp Asp Thr Pro Ile Lys Arg Cys Leu Gln Thr Lys Trp			
	245	250	255
Pro Tyr Ile Glu Leu Leu Trp Thr Thr Asp Arg Ser Pro Ser Leu Asn			
	260	265	270

<210> 561
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 561
 Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Val Leu Leu Leu Gln Ala Gly Leu Asn Thr
 20 25 30
 Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln
 35 40 45
 Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly
 50 55 60
 Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Asp Lys Glu Lys Ala Trp
 65 70 75 80
 Arg Ala Val Val Val Gln Met Ala Gln
 85

<210> 562
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 562
 Met Tyr Leu Met Ser Phe Ser Ile His Phe Val Lys Ile Ile Cys Met
 1 5 10 15
 Cys Thr Ile Leu Val Leu Ser Pro Pro Val Leu Leu Lys Tyr Gln Asp
 20 25 30
 Ser Thr Pro Arg Pro Leu Trp Ser Gln Cys Lys Ile Pro Ile Asn Tyr
 35 40 45

Leu Lys Gly Lys
50

<210> 563
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 563
Met Ala Gln His His Leu Leu Ser Ile Leu Leu Ala Ile Leu Ser Cys
1 5 10 15
Ser Ser Gln Pro Arg Gln Xaa Arg Gly Ser Gly Ala Leu Pro Cys Glu
20 25 30
Val Cys Ser Ala Val Leu Leu Thr Cys Leu Arg Lys Ile Ser Gly Ser
35 40 45
Leu Cys Val
50

<210> 564
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring amino acids

<400> 564
Met Ser Asn Thr Leu Leu Ser Gln Trp Leu Leu Leu Leu Thr Leu Phe
1 5 10 15
Lys Cys Ile Ile Leu Pro Leu Asn Leu Xaa Pro Ile Ile Arg Thr Ile
20 25 30
Pro Asp Trp Ser Pro Glu Leu Gly Thr Asn Thr
35 40

<210> 565
<211> 74
<212> PRT
<213> Homo sapiens

<400> 565

Met Leu His Leu Ala Ala Met Trp Trp Ala Cys Val Thr Thr Leu Val
1 5 10 15
Phe Thr Leu Val Ser Lys Leu Phe Ile Pro Leu Lys Ser Ser Met Asp
20 25 30
Gly Glu Met Ser Leu Asp Pro His Ser Cys Val Leu Val Cys Ile Cys
35 40 45
Phe Pro Leu Arg Phe Val Phe Val Ser Cys Phe Glu Leu Tyr Leu Val
50 55 60
Gln Ser Ile Val Lys Leu Ser Gln Gln Leu
65 70

<210> 566

<211> 169

<212> PRT

<213> Homo sapiens

<400> 566

Met Leu Ala Gly Ala Gly Arg Pro Gly Leu Pro Gln Gly Arg His Leu
1 5 10 15
Cys Trp Leu Leu Cys Ala Phe Thr Leu Lys Leu Cys Gln Ala Glu Ala
20 25 30
Pro Val Gln Glu Glu Lys Leu Ser Ala Ser Thr Ser Asn Leu Pro Cys
35 40 45
Trp Leu Val Glu Glu Phe Val Val Ala Glu Glu Cys Ser Pro Cys Ser
50 55 60
Asn Phe Arg Ala Lys Thr Thr Pro Glu Cys Gly Pro Thr Gly Tyr Val
65 70 75 80
Glu Lys Ile Thr Cys Ser Ser Ser Lys Arg Asn Glu Phe Lys Ser Leu
85 90 95
Pro Leu Ser Phe Asp Gly Thr Thr Leu Ile Leu Glu Val Arg Arg Gly
100 105 110
Cys Arg Val Cys Gly Pro Asp Leu Arg Leu Ser Cys His His Ser Ser
115 120 125
Ala Thr Ile Gly Gln Lys Gly Ser Gly Lys Gly Pro Glu Ala Asn Arg
130 135 140
Val His Ile Ala Thr Phe His Pro Cys Ile Leu Gly Leu Arg Asp Pro
145 150 155 160
Ile Ser Asp Ser Glu Ser Glu Met Asp
165

<210> 567
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 567
 Met Gly Gln Val Trp Arg Val Pro Pro Leu Leu Leu Ser Val Gln Val
 1 5 10 15
 Phe Leu Thr Met Ala His Ala Phe His Gln Ala Pro Glu Leu Gln Trp
 20 25 30
 Leu Gly Leu Trp Phe Trp Val Arg Leu Phe Ala Gly Gly Asp Gly Gly
 35 40 45
 Leu His Leu Asn Ile Ser Ser Val Thr Leu Pro Leu Leu His Gly Lys
 50 55 60
 Gln Leu Ser Arg Glu Val Pro Ser Cys Gln Gly Lys Pro Arg Leu Gly
 65 70 75 80
 Arg Pro Pro Tyr Lys Glu Pro Gln Asp Cys Ser His Gly Cys His Leu
 85 90 95
 Ser Trp Lys Gly Arg Phe Met Gly Phe Pro Gly Thr Pro Arg Leu Ser
 100 105 110
 Trp Pro Arg Gly Lys Arg Trp Leu Leu Gln Glu Phe Asp Leu Ser
 115 120 125

<210> 568
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 568
 Met Ser Ala Leu Ser Phe Thr Ser Tyr Phe Leu LeuLeu Leu Arg Val
 1 5 10 15
 Lys Pro Val Glu Val Ser Gly Ser Ile Pro His Pro Glu Gln Pro Asn
 20 25 30
 Val Leu Cys Leu Val Leu Pro Thr Phe Gly Tyr
 35 40

<210> 569
 <211> 215
 <212> PRT
 <213> Homo sapiens

<220>

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<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 569
Met Tyr Gly Lys Ser Ser Thr Arg Ala Val Leu Leu Leu Leu Gly Ile
 1          5          10          15

Gln Leu Thr Ala Leu Trp Pro Ile Ala Ala Val Glu Ile Tyr Thr Ser
 20          25          30

Arg Val Leu Glu Ala Val Asn Gly Thr Asp Ala Arg Leu Lys Cys Thr
 35          40          45

Phe Ser Ser Phe Ala Pro Val Gly Asp Ala Leu Thr Val Thr Trp Asn
 50          55          60

Phe Arg Pro Leu Asp Gly Gly Pro Glu Gln Phe Val Phe Tyr Tyr His
 65          70          75          80

Ile Asp Xaa Phe Gln Pro Met Ser Gly Arg Phe Lys Asp Arg Val Ser
 85          90          95

Trp Asp Gly Asn Pro Glu Arg Tyr Asp Ala Ser Ile Leu Leu Trp Lys
100          105          110

Leu Gln Phe Asp Asp Asn Gly Thr Tyr Thr Cys Gln Val Lys Asn Pro
115          120          125

Pro Asp Val Asp Gly Val Ile Gly Asp Ile Arg Leu Xaa Val Val His
130          135          140

Thr Val Arg Phe Ser Glu Ile His Phe Leu Ala Leu Ala Ile Gly Ser
145          150          155          160

Ala Cys Ala Leu Met Ile Ile Ile Val Ile Val Val Val Leu Phe Gln
165          170          175

His Tyr Arg Lys Lys Arg Trp Ala Glu Arg Ala His Lys Val Val Glu
180          185          190

Ile Lys Ser Lys Glu Glu Glu Arg Leu Asn Gln Glu Lys Lys Val Ser
195          200          205

Val Tyr Leu Glu Asp Thr Asp
210          215

<210> 570
<211> 60
<212> PRT

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<213> Homo sapiens

<400> 570

```
Met Leu Tyr Trp Gly Asn Val Ala Leu Val Leu Pro Thr Pro Tyr Leu
 1           5           10           15
His Leu Ser Leu Thr Leu Leu Leu Ser Pro Glu Trp Leu Gly Glu Met
          20           25           30
Gly Arg Gly Leu Pro Trp Pro Gly His Leu Val Ala Ala Trp Leu Asp
          35           40           45
His Ile Ala Asn Glu Leu Gly Arg Gly Ala Ile Phe
          50           55           60
```

<210> 571

<211> 64

<212> PRT

<213> Homo sapiens

<400> 571

```
Met Asn Ala Ser Cys Ser Leu Ala His Phe Glu His Ser Gly Met Ser
 1           5           10           15
Val Leu Leu Val His Leu Phe Ile Ile Val Ser Thr Val Pro Ser Cys
          20           25           30
Phe Lys Lys Tyr Met Ala Phe Ile Ile Tyr Pro Ala Phe Ser Cys His
          35           40           45
Phe Asn Lys Ser Met Cys Leu Ile Gln Leu Leu His Ser Ser Gln Lys
          50           55           60
```

<210> 572

<211> 79

<212> PRT

<213> Homo sapiens

<400> 572

```
Met Ala Cys Leu Gly Gly Leu Leu Gly Ile Ile Gly Val Ile Cys Leu
 1           5           10           15
Ile Ser Cys Leu Ser Pro Glu Met Asn Cys Asp Gly Gly His SerTyr
          20           25           30
Val Arg Asn Tyr Leu Gln Lys Pro Thr Phe Ala Leu Gly Glu Leu Tyr
          35           40           45
Pro Pro Leu Ile Asn Leu Trp Glu Ala Gly Lys Glu Lys Ser Thr Ser
          50           55           60
```

Leu Lys Val Lys Ala Thr Val Ile Gly Leu Pro Thr Asn Met Ser
65 70 75

<210> 573
<211> 47
<212> PRT
<213> Homo sapiens

<400> 573
Met Phe Tyr Pro Pro Cys Pro Phe Phe Pro Gln Leu Cys Phe Cys Ile
1 5 10 15
Phe Phe Leu Gly Lys Cys Lys Leu Ser Leu Ser Phe Met Thr Cys Glu
20 25 30
Ile Ser Val Ser Leu Glu Phe Val Arg Arg Arg Gly Asn His Ala
35 40 45

<210> 574
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring amino acids

<400> 574
Met Gly Met Ile Leu Val Leu Ala Ser Phe Leu Ala His Pro Val Glu
1 5 10 15
Ala Leu Ala Gln Ala Val Ala Leu Gly Gln Gln Gln Leu Ala Leu Leu
20 25 30
Gly Val Gln Xaa His Ala Val Glu Gly Phe Leu Gln Leu Gln Xaa Cys
35 40 45

Phe Ala Xaa Leu Phe Val Phe Glu Gly Ala Leu Leu Ala His Leu Gly
 50 55 60
 His Phe Phe Val Glu Pro Gly Ala Ala Gln Gly Gln Leu Leu Asp Leu
 65 70 75 80
 Gly Leu Xaa Arg Arg Glu Leu Gly Phe Gln Phe Ala Leu Leu Ala Arg
 85 90 95
 Phe Val Leu Gln
 100

<210> 575
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 575
 Met Gly Leu Phe Leu Phe Leu Val Ser Ser
 1 5 10

<210> 576
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 576
 Met Ile Ile Leu His Ile Val Val Cys Leu Phe Thr Ile Ser Ile Ile
 1 5 10 15
 Glu Glu Gln Lys Glu Glu Ile Leu Cys Ser Thr Lys Ser Gln Ala Glu
 20 25 30
 Lys Thr Val Thr His Ile Glu Gln
 35 40

<210> 577
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 577
 Met Leu Ser Pro Lys Ser Pro Arg Met Leu Leu Pro Cys Leu Leu Gln
 1 5 10 15
 Pro Leu Val Val Ala Asn Ile Pro Arg Val Pro Trp Leu Ala Asp Glu
 20 25 30
 Ser Leu Asn Pro Thr Pro Ile Ile Thr Trp Gln Ser Pro Cys Val Ala
 35 40 45

Gln Leu Cys Pro Asn Phe Pro Phe Pro Thr Arg Thr Leu Val Thr Gly
 50 55 60

Leu
 65

<210> 578
 <211> 108
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 578
 Met Gly Ala Ala Lys Val Trp Gly Glu Val Gly Arg Trp Leu Val Ile
 1 5 10 15
 Ala Leu Ile Gln Leu Ala Lys Ala Val Leu Arg Met Leu Leu Leu Leu
 20 25 30
 Trp Phe Lys Ala Gly Leu Gln Thr Ser Pro Pro Ile Val Pro Leu Asp
 35 40 45
 Arg Glu Thr Arg His Ser Pro Arg Met Val Thr Thr Ala Xaa Xaa Thr
 50 55 60
 Met Ser Ser Pro Thr Trp Gly Ser Gly Gln Thr Gly Trp Cys Glu Pro
 65 70 75 80
 Ser Arg Thr Arg Arg Pro Cys Thr Pro Gly Thr Gly Glu Leu Pro Ser
 85 90 95
 Ser Gly Arg Asp Gly Ser Ser Ser Ile Thr Arg Ser
 100 105

<210> 579
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 579
 Met Asn Gln Leu Met Phe Gln Asp Leu Leu Cys Cys Leu Cys Leu Phe
 1 5 10 15

Val Ile Gly Leu Ile Ser Leu Leu Arg Lys Thr Tyr Ser Cys Val Asn
20 25 30
Leu Cys Lys Val Met Leu Pro Val Lys Lys Tyr Ser Thr Val Ser Thr
35 40 45
Val Leu Cys Arg Asn Met Lys Leu Asn Gly Lys Asn Val Leu Met Phe
50 55 60
Val Val Met Leu Leu Gly Gln Trp Met Gly Lys Leu Pro Lys Leu Ser
65 70 75 80
Pro

<210> 580
<211> 941
<212> PRT
<213> Homo sapiens

<400> 580
Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr MetSer Phe Leu
1 5 10 15
Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser Trp Cys
20 25 30
Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr ProPhe Pro
35 40 45
Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val His Tyr Asp
50 55 60
Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp Gly Thr Thr
65 70 75 80
Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile Ile Leu His
85 90 95
Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys Gly Ala Gly
100 105 110
Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His Pro Pro Gln
115 120 125
Glu Gln Ile Ala Leu Leu Ala Pro Glu Pro Leu Leu Val Gly Leu Pro
130 135 140
Tyr Thr Val Val Ile His Tyr Ala Gly Asn Leu Ser Glu Thr Phe His
145 150 155 160
Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile
165 170 175
Leu Ala Ser Thr Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro

180					185					190					
Cys	Phe	Asp	Glu	Pro	Ala	Phe	Lys	Ala	Ser	Phe	Ser	Ile	Lys	Ile	Arg
		195					200					205			
Arg	Glu	Pro	Arg	His	Leu	Ala	Ile	Ser	Asn	Met	Pro	Leu	Val	Lys	Ser
	210					215					220				
Val	Thr	Val	Ala	Glu	Gly	Leu	Ile	Glu	Asp	His	Phe	Asp	Val	Thr	Val
225					230					235					240
Lys	Met	Ser	Thr	Tyr	Leu	Val	Ala	Phe	Ile	Ile	Ser	Asp	Phe	Glu	Ser
				245					250					255	
Val	Ser	Lys	Ile	Thr	Lys	Ser	Gly	Val	Lys	Val	Ser	Val	Tyr	Ala	Val
			260					265					270		
Pro	Asp	Lys	Met	Asn	Gln	Ala	Asp	Tyr	Ala	Leu	Asp	Ala	Ala	Val	Thr
		275					280					285			
Leu	Leu	Glu	Phe	Tyr	Glu	Asp	Tyr	Phe	Ser	Ile	Pro	Tyr	Pro	Leu	Pro
	290					295					300				
Lys	Gln	Asp	Leu	Ala	Ala	Ile	Pro	Asp	Phe	Gln	Ser	Gly	Ala	Met	Glu
305					310					315					320
Asn	Trp	Gly	Leu	Thr	Thr	Tyr	Arg	Glu	Ser	Ala	Leu	Leu	Phe	Asp	Ala
				325					330					335	
Glu	Lys	Ser	Ser	Ala	Ser	Ser	Lys	Leu	Gly	Ile	Thr	Met	Thr	Val	Ala
			340					345					350		
His	Glu	Leu	Ala	His	Gln	Trp	Phe	Gly	Asn	Leu	Val	Thr	Met	Glu	Trp
		355					360					365			
Trp	Asn	Asp	Leu	Trp	Leu	Asn	Glu	Gly	Phe	Ala	Lys	Phe	Met	Glu	Phe
	370					375					380				
Val	Ser	Val	Ser	Val	Thr	His	Pro	Glu	Leu	Lys	Val	Gly	Asp	Tyr	Phe
385					390					395					400
Phe	Gly	Lys	Cys	Phe	Asp	Ala	Met	Glu	Val	Asp	Ala	Leu	Asn	Ser	Ser
				405					410					415	
His	Pro	Val	Ser	Thr	Pro	Val	Glu	Asn	Pro	Ala	Gln	Ile	Arg	Glu	Met
			420					425					430		
Phe	Asp	Asp	Val	Ser	Tyr	Asp	Lys	Gly	Ala	Cys	Ile	Leu	Asn	Met	Leu
		435					440					445			
Arg	Glu	Tyr	Leu	Ser	Ala	Asp	Ala	Phe	Lys	Ser	Gly	Ile	Val	Gln	Tyr
	450					455					460				
Leu	Gln	Lys	His	Ser	Tyr	Lys	Asn	Thr	Lys	Asn	Glu	Asp	Leu	Trp	Asp
465					470					475					480
Ser	Met	Ala	Ser	Ile	Cys	Pro	Thr	Asp	Gly	Val	Lys	Gly	Met	Asp	Gly

485										490					495				
Phe	Cys	Ser	Arg	Ser	Gln	His	Ser	Ser	Ser	Ser	Ser	His	Trp	His	Gln				
			500					505					510						
Glu	Gly	Val	Asp	Val	Lys	Thr	Met	Met	Asn	Thr	Trp	Thr	Leu	Gln	Arg				
		515					520					525							
Gly	Phe	Pro	Leu	Ile	Thr	Ile	Thr	Val	Arg	Gly	Arg	Asn	Val	His	Met				
	530					535					540								
Lys	Gln	Glu	His	Tyr	Met	Lys	Gly	Ser	Asp	Gly	Ala	Pro	Asp	Thr	Gly				
545					550					555					560				
Tyr	Leu	Trp	His	Val	Pro	Leu	Thr	Phe	Ile	Thr	Ser	Lys	Ser	Asp	Met				
				565					570					575					
Val	His	Arg	Phe	Leu	Leu	Lys	Thr	Lys	Thr	Asp	Val	Leu	Ile	Leu	Pro				
			580					585					590						
Glu	Glu	Val	Glu	Trp	Ile	Lys	Phe	Asn	Val	Gly	Met	Asn	Gly	Tyr	Tyr				
		595					600					605							
Ile	Val	His	Tyr	Glu	Asp	Asp	Gly	Trp	Asp	Ser	Leu	Thr	Gly	Leu	Leu				
	610					615					620								
Lys	Gly	Thr	His	Thr	Ala	Val	Ser	Ser	Asn	Asp	Arg	Ala	Ser	Leu	Ile				
625					630					635					640				
Asn	Asn	Ala	Phe	Gln	Leu	Val	Ser	Ile	Gly	Lys	Leu	Ser	Ile	Glu	Lys				
				645					650					655					
Ala	Leu	Asp	Leu	Ser	Leu	Tyr	Leu	Lys	His	Glu	Thr	Glu	Ile	Met	Pro				
			660					665					670						
Val	Phe	Gln	Gly	Leu	Asn	Glu	Leu	Ile	Pro	Met	Tyr	Lys	Leu	Met	Glu				
		675					680					685							
Lys	Arg	Asp	Met	Asn	Glu	Val	Glu	Thr	Gln	Phe	Lys	Ala	Phe	Leu	Ile				
	690					695					700								
Arg	Leu	Leu	Arg	Asp	Leu	Ile	Asp	Lys	Gln	Thr	Trp	Thr	Asp	Glu	Gly				
705					710					715				720					
Ser	Val	Ser	Glu	Arg	Met	Leu	Arg	Ser	Glu	Leu	Leu	Leu	Leu	Ala	Cys				
				725					730					735					
Val	His	Asn	Tyr	Gln	Pro	Cys	Val	Gln	Arg	Ala	Glu	Gly	Tyr	Phe	Arg				
			740					745					750						
Lys	Trp	Lys	Glu	Ser	Asn	Gly	Asn	Leu	Ser	Leu	Pro	Val	Asp	Val	Thr				
		755				760						765							
Leu	Ala	Val	Phe	Ala	Val	Gly	Ala	Gln	Ser	Thr	Glu	Gly	Trp	Asp	Phe				
	770					775					780								
Leu	Tyr	Ser	Lys	Tyr	Gln	Phe	Ser	Leu	Ser	Ser	Thr	Glu	Lys	Ser	Gln				

785		790		795		800									
Ile	Glu	Phe	Ala	Leu	Cys	Arg	Thr	Gln	Asn	Lys	Glu	Lys	Leu	Gln	Trp
				805					810					815	
Leu	Leu	Asp	Glu	Ser	Phe	Lys	Gly	Asp	Lys	Ile	Lys	Thr	Gln	Glu	Phe
			820					825					830		
Pro	Gln	Ile	Leu	Thr	Leu	Ile	Gly	Arg	Asn	Pro	Val	Gly	Tyr	Pro	Leu
		835					840					845			
Ala	Trp	Gln	Phe	Leu	Arg	Lys	Asn	Trp	Asn	Lys	Leu	Val	Gln	Lys	Phe
	850					855					860				
Glu	Leu	Gly	Ser	Ser	Ser	Ile	Ala	His	Met	Val	Met	Gly	Thr	Thr	Asn
865					870					875					880
Gln	Phe	Ser	Thr	Arg	Thr	Arg	Leu	Glu	Glu	Val	Lys	Gly	Phe	Phe	Ser
				885					890					895	
Ser	Leu	Lys	Glu	Asn	Gly	Ser	Gln	Leu	Arg	Cys	Val	Gln	Gln	Thr	Ile
			900					905						910	
Glu	Thr	Ile	Glu	Glu	Asn	Ile	Gly	Trp	Met	Asp	Lys	Asn	Phe	Asp	Lys
		915					920					925			
Ile	Arg	Val	Trp	Leu	Gln	Ser	Glu	Lys	Leu	Glu	Arg	Met			
	930					935					940				

<210> 581

<211> 612

<212> PRT

<213> Homo sapiens

<400> 581

Met	Ala	Ala	Ala	Gly	Arg	Leu	Pro	Ser	Ser	Trp	Ala	Leu	Phe	Ser	Pro
1				5					10					15	
Leu	Leu	Ala	Gly	Leu	Ala	Leu	Leu	Gly	Val	Gly	Pro	Val	Pro	Ala	Arg
			20					25					30		
Ala	Leu	His	Asn	Val	Thr	Ala	Glu	Leu	Phe	Gly	Ala	Glu	Ala	Trp	Gly
		35					40					45			
Thr	Leu	Ala	Ala	Phe	Gly	Asp	Leu	Asn	Ser	Asp	Lys	Gln	Thr	Asp	Leu
	50					55					60				
Phe	Val	Leu	Arg	Glu	Arg	Asn	Asp	Leu	Ile	Val	Phe	Leu	Ala	Asp	Gln
65					70					75					80
Asn	Ala	Pro	Tyr	Phe	Lys	Pro	Lys	Val	Lys	Val	Ser	Phe	Lys	Asn	His
				85					90					95	
Ser	Ala	Leu	Ile	Thr	Ser	Val	Val	Pro	Gly	Asp	Tyr	Asp	Gly	Asp	Ser
			100					105					110		

Gln Met Asp Val Leu Leu Thr Tyr Leu Pro Lys Asn Tyr Ala Lys Ser
 115 120 125
 Glu Leu Gly Ala Val Ile Phe Trp Gly Gln Asn Gln Thr Leu Asp Pro
 130 135 140
 Asn Asn Met Thr Ile Leu Asn Arg Thr Phe Gln Asp Glu Pro Leu Ile
 145 150 155 160
 Met Asp Phe Asn Gly Asp Leu Ile Pro Asp Ile Phe Gly Ile Thr Asn
 165 170 175
 Glu Ser Asn Gln Pro Gln Ile Leu Leu Gly Gly Asn Leu Ser Trp His
 180 185 190
 Pro Ala Leu Thr Thr Thr Ser Lys Met Arg Ile Pro His Ser His Ala
 195 200 205
 Phe Ile Asp Leu Thr Glu Asp Phe Thr Ala Asp Leu Phe Leu Thr Thr
 210 215 220
 Leu Asn Ala Thr Thr Ser Thr Phe Gln Phe Glu Ile Trp Glu Asn Leu
 225 230 235 240
 Asp Gly Asn Phe Ser Val Ser Thr Ile Leu Gu Lys Pro Gln Asn Met
 245 250 255
 Met Val Val Gly Gln Ser Ala Phe Ala Asp Phe Asp Gly Asp Gly His
 260 265 270
 Met Asp His Leu Leu Pro Gly Cys Glu Asp Lys Asn Cys Gln Lys Ser
 275 280 285
 Thr Ile Tyr Leu Val Arg Ser Gly Met Lys Gln Trp Val Pro Val Leu
 290 295 300
 Gln Asp Phe Ser Asn Lys Gly Thr Leu Trp Gly Phe Val Pro Phe Val
 305 310 315 320
 Asp Glu Gln Gln Pro Thr Glu Ile Pro Ile Pro Ile Thr Leu His Ile
 325 330 335
 Gly Asp Tyr Asn Met Asp Gly Tyr Pro Asp Ala Leu Val Ile Leu Tyr
 340 345 350
 Asn Thr Ser Gly Ser Asn Gln Gln Ala Phe Leu Leu Glu Asn Val Pro
 355 360 365
 Cys Asn Asn Ala Ser Cys Glu Glu Ala Arg Arg Met Phe Lys Val Tyr
 370 375 380
 Trp Glu Leu Thr Asp Leu Asn Gln Ile Lys Asp Ala Met Val Ala Thr
 385 390 395 400
 Phe Phe Asp Ile Tyr Glu Asp Gly Ile Leu Asp Ile Val Val Leu Ser
 405 410 415

Lys Gly Tyr Thr Lys Asn Asp Phe Ala Ile His Thr Leu Lys Asn Asn
 420 425 430
 Phe Glu Ala Asp Ala Tyr Phe Val Lys Val Ile Val Leu Ser Gly Leu
 435 440 445
 Cys Ser Asn Asp Cys Pro Arg Lys Ile Thr Pro Phe Gly Val Asn Gln
 450 455 460
 Pro Gly Pro Tyr Ile Met Tyr Thr Thr Val Asp Ala Asn Gly Tyr Leu
 465 470 475 480
 Lys Asn Gly Ser Ala Gly Gln Leu Ser Gln Ser Ala His Leu Ala Leu
 485 490 495
 Gln Leu Pro Tyr Asn Val Leu Gly Leu Gly Arg Ser Ala Asn Phe Leu
 500 505 510
 Asp His Leu Tyr Val Gly Ile Pro Arg Pro Ser Gly Glu Lys Ser Ile
 515 520 525
 Arg Lys Gln Glu Trp Thr Ala Ile Ile Pro Asn Ser Gln Leu Ile Val
 530 535 540
 Ile Pro Tyr Pro His Asn Val Pro Arg Ser Trp Ser Ala Lys Leu Tyr
 545 550 555 560
 Leu Thr Pro Ser Asn Ile Val Leu Leu Thr Ala Ile Ala Leu Ile Gly
 565 570 575
 Val Cys Val Phe Ile Leu Ala Ile Ile Gly Ile Leu His Trp Gln Glu
 580 585 590
 Lys Lys Ala Asp Asp Arg Glu Lys Arg Gln Glu Ala His Arg Phe His
 595 600 605
 Phe Asp Ala Met
 610

<210> 582

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 582

Met Ser Glu Ile Arg Gly Lys Pro Ile Glu Ser Ser Cys Met Tyr Gly
1 5 10 15
Thr Cys Cys Leu Trp Gly Lys Thr Tyr Ser Ile Gly Phe Leu Arg Phe
20 25 30
Cys Lys Gln Ala Thr Leu Gln Phe Cys Val Val Lys Pro Leu Met Ala
35 40 45
Val Ser Thr Val Val Leu Gln Ala Phe Gly Lys Tyr Arg Asp Gly Asp
50 55 60
Phe Asp Val Thr Ser Gly Tyr Leu Tyr Val Thr Ile Ile Tyr Asn Ile
65 70 75 80
Ser Val Ser Leu Ala Leu Tyr Ala Leu Phe Leu Phe Tyr Phe Ala Thr
85 90 95
Arg Glu Leu Leu Ser Pro Tyr Ser Pro Val Leu Lys Phe Phe Met Val
100 105 110
Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu Ala Ile
115 120 125
Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg Val Ser
130 135 140
Val Gly Glu Gly Thr Val Ala Ala Gly Tyr Gln Asp Phe Ile Ile Cys
145 150 155 160
Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg Xaa Ala Phe Xaa Tyr
165 170 175
Lys Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys Ala Pro
180 185 190
Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro His Asp
195 200 205
Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln Gln Tyr
210 215 220
Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly Gly Ala
225 230 235 240
His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp Asn Glu
245 250 255
Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe
260 265

<210> 583

<211> 53

<212> PRT

<213> Homo sapiens

<400> 583

Met Leu Val Leu Met Thr Thr Cys Ile Leu Ala Ala Val Cys Val His
1 5 10 15
Thr Ala Gln Cys Ala Pro Asp Ser Arg Met Asp Asn Asp Cys Pro Ser
20 25 30
His Gln Ala Gln Ile His Phe Arg Ala Ser Glu Val Arg Arg Gly Trp
35 40 45
Thr Phe Asn His Asp
50

<210> 584

<211> 196

<212> PRT

<213> Homo sapiens

<400> 584

Met Ala Phe Arg Tyr Leu Ser Trp Ile Leu Phe Pro Leu Leu Gly Cys
1 5 10 15
Tyr Ala Val Tyr Ser Leu Leu Tyr Leu GluHis Lys Gly Trp Tyr Ser
20 25 30
Trp Val Leu Ser Met Leu Tyr Gly Phe Leu Leu Thr Phe Gly Phe Ile
35 40 45
Thr Met Thr Pro Gln Leu Phe Ile Asn Tyr Lys Leu LysSer Val Ala
50 55 60
His Leu Pro Trp Arg Met Leu Thr Tyr Lys Ala Leu Asn Thr Phe Ile
65 70 75 80
Asp Asp Leu Phe Ala Phe Val Ile Lys Met Pro Val Met Tyr ArgIle
85 90 95
Gly Cys Leu Arg Asp Asp Val Val Phe Phe Ile Tyr Leu Tyr Gln Arg
100 105 110
Trp Ile Tyr Arg Val Asp Pro Thr Arg Val Asn Glu Phe Gly Met Ser
115 120 125
Gly Glu Asp Pro Thr Ala Ala Ala Pro Val Ala Glu Val Pro Thr Ala
130 135 140
Ala Gly Ala Leu Thr Pro Thr Pro Ala Pro Thr Thr Thr Thr Ala Thr
145 150 155 160
Arg Glu Glu Ala Ser Thr Ser Leu Pro Thr Lys Pro Thr Gln Gly Ala
165 170 175
Ser Ser Ala Ser Glu Pro Gln Glu Ala Pro Pro Lys Pro Ala Glu Asp

180 185 190

Lys Lys Lys Asp
195

<210> 585
<211> 52
<212> PRT
<213> Homo sapiens

<400> 585
Met His Cys His Ser Ala Leu Gly Pro Met Ser Thr Pro Val Leu Pro
1 5 10 15
Phe Ser Gly Ile Gly Leu Ala Phe Leu Cys Leu Cys Leu Ala Ala Ser
20 25 30
Met Val Asp Leu Lys Cys Leu Gly Met Asn Ser Thr Leu Leu Gln Pro
35 40 45
Ser Ile Lys Glu
50

<210> 586
<211> 72
<212> PRT
<213> Homo sapiens

<400> 586
Met Ala Arg Gly Cys Val Cys Ser Leu Cys Ala Ser Val Cys Ile Phe
1 5 10 15
Leu Ser Ser Leu Phe Pro Leu Leu Pro Ser Val His Ser Val Asn Ile
20 25 30
Ile Ser Cys Leu Leu Leu Ser Lys Cys Phe Glu Gly Leu Glu Leu Met
35 40 45
Cys Glu His Leu Tyr Gln Leu Ser Gln Leu His Val Leu His His Ile
50 55 60
Phe Ser Tyr Leu Leu Cys Thr Pro
65 70

<210> 587
<211> 87
<212> PRT
<213> Homo sapiens

<400> 587
Met Gly Leu His Leu Arg Pro Tyr Arg Val Gly Bu Leu Pro Asp Gly

1 5 10 15
 Leu Leu Phe Leu Leu Leu Leu Met Leu Leu Ala Asp Pro Ala Leu
 20 25 30
 Pro Ala Gly Arg His Pro Pro Val Val Leu Val Pro Gly Asp Leu Gly
 35 40 45
 Asn Gln Leu Glu Ala Lys Leu Asp Lys Pro Thr Val Val His Tyr Leu
 50 55 60
 Cys Ser Lys Lys Thr Glu Ser Tyr Phe Thr Ile Trp Leu Asn Leu Glu
 65 70 75 80
 Leu Leu Leu Pro Val His His
 85

<210> 588
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 588
 Met Gly Pro Ser Gln Arg Glu Val Thr Val Gln Trp His Arg Ala Leu
 1 5 10 15
 Phe Leu Leu Pro Leu Leu Leu Leu Ser Thr Arg Thr Glu Thr Lys Asn
 20 25 30
 Phe Gly Phe Lys Trp Leu Lys Asp
 35 40

<210> 589
 <211> 525
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 589
 Met Leu Ala Phe Pro Leu Leu Leu Thr Gly Leu Ile Ser Phe Arg Glu
 1 5 10 15
 Lys Arg Leu Gln Asp Val Gly Thr Pro Ala Ala Arg Ala Arg Ala Phe
 20 25 30
 Phe Thr Ala Pro Val Val Val Phe His Leu Asn Ile Leu Ser Tyr Phe
 35 40 45
 Ala Phe Leu Cys Leu Phe Ala Tyr Val Leu Met Val Asp Phe Gln Pro

50					55					60					
Val	Pro	Ser	Trp	Cys	Glu	Cys	Ala	Ile	Tyr	Leu	Trp	Leu	Phe	Ser	Leu
65					70					75					80
Val	Cys	Glu	Glu	Met	Arg	Gln	Leu	Phe	Tyr	Asp	Pro	Asp	Glu	Cys	Gly
				85					90					95	
Leu	Met	Lys	Lys	Ala	Ala	Leu	Tyr	Phe	Ser	Asp	Phe	Trp	Asn	Lys	Leu
			100					105					110		
Asp	Val	Gly	Ala	Ile	Leu	Leu	Phe	Val	Ala	Gly	Leu	Thr	Cys	Arg	Leu
		115					120					125			
Ile	Pro	Ala	Thr	Leu	Tyr	Pro	Gly	Arg	Val	Ile	Leu	Ser	Leu	Asp	Phe
	130					135					140				
Ile	Leu	Phe	Cys	Leu	Arg	Leu	Met	His	Ile	Phe	Thr	Ile	Ser	Lys	Thr
145					150					155					160
Leu	Gly	Pro	Lys	Ile	Ile	Ile	Val	Lys	Arg	Met	Met	Lys	Asp	Val	Phe
				165					170					175	
Phe	Phe	Leu	Phe	Leu	Leu	Ala	Val	Trp	Val	Val	Ser	Phe	Gly	Val	Ala
			180					185					190		
Lys	Gln	Ala	Ile	Leu	Ile	His	Asn	Glu	Arg	Arg	Val	Asp	Trp	Leu	Phe
		195					200					205			
Arg	Xaa	Ala	Val	Tyr	His	Ser	Tyr	Leu	Thr	Ile	Phe	Gly	Gln	Ile	Pro
	210					215					220				
Gly	Tyr	Ile	Asp	Gly	Val	Asn	Phe	Asn	Pro	Glu	His	Cys	Ser	Pro	Asn
225					230					235					240
Gly	Thr	Asp	Pro	Tyr	Lys	Pro	Lys	Cys	Pro	Glu	Ser	Asp	Ala	Thr	Gln
				245					250					255	
Gln	Arg	Pro	Ala	Phe	Pro	Glu	Trp	Leu	Thr	Val	Leu	Leu	Leu	Cys	Leu
			260					265						270	
Tyr	Leu	Leu	Phe	Thr	Asn	Ile	Leu	Leu	Leu	Asn	Leu	Leu	Ile	Ala	Met
		275					280					285			
Phe	Asn	Tyr	Thr	Phe	Gln	Gln	Val	Gln	Glu	His	Thr	Asp	Gln	Ile	Trp
	290					295					300				
Lys	Phe	Gln	Arg	His	Asp	Leu	Ile	Glu	Glu	Tyr	His	Gly	Arg	Pro	Ala
305					310					315					320
Ala	Pro	Pro	Pro	Phe	Ile	Leu	Leu	Ser	His	Leu	Gln	Leu	Phe	Ile	Lys
				325					330					335	
Arg	Val	Val	Leu	Lys	Thr	Pro	Ala	Lys	Arg	His	Lys	Gln	Leu	Lys	Asn
			340					345					350		
Lys	Leu	Glu	Lys	Asn	Glu	Glu	Ala	Ala	Leu	Leu	Ser	Trp	Glu	Ile	Tyr

355	360	365
Leu Lys Glu Asn Tyr Leu Gln Asn Arg Gln Phe Gln Gln Lys GlnArg		
370	375	380
Pro Glu Gln Lys Ile Glu Asp Ile Ser Asn Lys Val Asp Ala Met Val		
385	390	395
Asp Leu Leu Asp Leu Asp Pro Leu Lys Arg Ser Gly Ser Met Glu Gln		
405	410	415
Arg Leu Ala Ser Leu Glu Glu Gln Val Ala Gln Thr Ala Arg Ala Leu		
420	425	430
His Trp Ile Val Arg Thr Leu Arg Ala Ser Gly Phe Ser Ser Glu Ala		
435	440	445
Asp Val Pro Thr Leu Ala Ser Gln Lys Ala Ala Glu Glu Pro Asp Ala		
450	455	460
Glu Pro Gly Gly Arg Lys Lys Thr Glu Glu Pro Gly Asp Ser Tyr His		
465	470	475
Val Asn Ala Arg His Leu Leu Tyr Pro Asn Cys Pro Val Thr Arg Phe		
485	490	495
Pro Val Pro Asn Glu Lys Val Pro Trp Glu Thr Glu Phe Leu Ile Tyr		
500	505	510
Asp Pro Pro Phe Tyr Thr Ala Glu Arg Lys Asp Ala Ala		
515	520	525

<210> 590
 <211> 937
 <212> PRT
 <213> Homo sapiens

<400> 590
Met Gln Asn Ser Gly Lys Thr Lys Phe LysArg Thr Ser Ile Asp Arg
1 5 10 15
Leu Met Asn Thr Leu Val Leu Trp Ile Phe Gly Phe Leu Ile Cys Leu
20 25 30
Gly Ile Ile Leu Ala Ile Gly Asn Ser Ile TrpGlu Ser Gln Thr Gly
35 40 45
Asp Gln Phe Arg Thr Phe Leu Phe Trp Asn Glu Gly Glu Lys Ser Ser
50 55 60
Val Phe Ser Gly Phe Leu Thr Phe Trp Ser Tyr Ile Ile Ile Leu Asn
65 70 75 80
Thr Val Val Pro Ile Ser Leu Tyr Val Ser Val Glu Val Ile Arg Leu
85 90 95

Gly His Ser Tyr Phe Ile Asn Trp Asp Arg Lys Met Tyr Tyr SerArg
 100 105 110
 Lys Ala Ile Pro Ala Val Ala Arg Thr Thr Thr Leu Asn Glu Glu Leu
 115 120 125
 Gly Gln Ile Glu Tyr Ile Phe Ser Asp Lys Thr Gly Thr Leu Thr Gln
 130 135 140
 Asn Ile Met Thr Phe Lys Arg Cys Ser Ile Asn Gly Arg Ile Tyr Gly
 145 150 155 160
 Glu Val His Asp Asp Leu Asp Gln Lys Thr Glu Ile Thr Gln Glu Lys
 165 170 175
 Glu Pro Val Asp Phe Ser Val Lys Ser Gln Ala Asp Arg Glu Phe Gln
 180 185 190
 Phe Phe Asp His Asn Leu Met Glu Ser Ile Lys Met Gly Asp Pro Lys
 195 200 205
 Val His Glu Phe Leu Arg Leu Leu Ala Leu Cys His Thr Val Met Ser
 210 215 220
 Glu Glu Asn Ser Ala Gly Glu Leu Ile Tyr Gln Val Gln Ser Pro Asp
 225 230 235 240
 Glu Gly Ala Leu Val Thr Ala Ala Arg Asn Phe Gly Phe Ile Phe Lys
 245 250 255
 Ser Arg Thr Pro Glu Thr Ile Thr Ile Glu Glu Leu Gly Thr Leu Val
 260 265 270
 Thr Tyr Gln Leu Leu Ala Phe Leu Asp Phe Asn Asn Thr Arg Lys Arg
 275 280 285
 Met Ser Val Ile Val Arg Asn Pro Glu Gly Gln Ile Lys Leu Tyr Ser
 290 295 300
 Lys Gly Ala Asp Thr Ile Leu Phe Glu Lys Leu His Pro Ser Asn Glu
 305 310 315 320
 Val Leu Leu Ser Leu Thr Ser Asp His Leu Ser Glu Phe Ala Gly Glu
 325 330 335
 Gly Leu Arg Thr Leu Ala Ile Ala Tyr Arg Asp Leu Asp Asp Lys Tyr
 340 345 350
 Phe Lys Glu Trp His Lys Met Leu Glu Asp Ala Asn Val Ala Thr Glu
 355 360 365
 Glu Arg Asp Glu Arg Ile Ala Gly Leu Tyr Glu Glu Ile Glu Arg Asp
 370 375 380
 Leu Met Leu Leu Gly Ala Thr Ala Val Glu Asp Lys Leu Gln Glu Gly
 385 390 395 400

Val Ile Glu Thr Val Thr Ser Leu Ser Leu Ala Asn Ile Lys Ile Trp
405 410 415
Val Leu Thr Gly Asp Lys Gln Glu Thr Ala Ile Asn Ile Gly Tyr Ala
420 425 430
Cys Asn Met Leu Thr Asp Asp Met Asn Asp Val Phe Val Ile Ala Gly
435 440 445
Asn Asn Ala Val Glu Val Arg Glu Glu Leu Arg Lys Ala Lys Gln Asn
450 455 460
Leu Phe Gly Gln Asn Arg Asn Phe Ser Asn Gly His Val Val Cys Glu
465 470 475 480
Lys Lys Gln Gln Leu Glu Leu Asp Ser Ile Val Glu Glu Thr Ile Thr
485 490 495
Gly Asp Tyr Ala Leu Ile Ile Asn Gly His Ser Leu Ala His Ala Leu
500 505 510
Glu Ser Asp Val Lys Asn Asp Leu Leu Glu Leu Ala Cys Met Cys Lys
515 520 525
Thr Val Ile Cys Cys Arg Val Thr Pro Leu Gln Lys Ala Gln Val Val
530 535 540
Glu Leu Val Lys Lys Tyr Arg Asn Ala Val Thr Leu Ala Ile Gly Asp
545 550 555 560
Gly Ala Asn Asp Val Ser Met Ile Lys Ser Ala His Ile Gly Val Gly
565 570 575
Ile Ser Gly Gln Glu Gly Leu Gln Ala Val Leu Ala Ser Asp Tyr Ser
580 585 590
Phe Ala Gln Phe Arg Tyr Leu Gln Arg Leu Leu Leu Val His Gly Arg
595 600 605
Trp Ser Tyr Phe Arg Met Cys Lys Phe Leu Cys Tyr Phe Phe Tyr Lys
610 615 620
Asn Phe Ala Phe Thr Leu Val His Phe Trp Phe Gly Phe Phe Cys Gly
625 630 635 640
Phe Ser Ala Gln Thr Val Tyr Asp Gln Trp Phe Ile Thr Leu Phe Asn
645 650 655
Ile Val Tyr Thr Ser Leu Pro Val Leu Ala Met Gly Ile Phe Asp Gln
660 665 670
Asp Val Ser Asp Gln Asn Ser Val Asp Cys Pro Gln Leu Tyr Lys Pro
675 680 685
Gly Gln Leu Asn Leu Leu Phe Asn Lys Arg Lys Phe Phe Ile Cys Val
690 695 700

Met His Gly Ile Tyr Thr Ser Leu Val Leu Phe Phe Ile Pro Tyr Gly
 705 710 715 720
 Ala Phe Tyr Asn Val Ala Gly Glu Asp Gly Gln His Ile Ala Asp Tyr
 725 730 735
 Gln Ser Phe Ala Val Thr Met Ala Thr Ser Leu Val Ile Val Val Ser
 740 745 750
 Val Gln Ile Ala Leu Asp Thr Ser Tyr Trp Thr Phe Ile Asn His Val
 755 760 765
 Phe Ile Trp Gly Ser Ile Ala Ile Tyr Phe Ser Ile Leu Phe Thr Met
 770 775 780
 His Ser Asn Gly Ile Phe Gly Ile Phe Pro Asn Gln Phe Pro Phe Val
 785 790 795 800
 Gly Asn Ala Arg His Ser Leu Thr Gln Lys Cys Ile Trp Leu Val Ile
 805 810 815
 Leu Leu Thr Thr Val Ala Ser Val Met Pro Val Val Ala Phe Arg Phe
 820 825 830
 Leu Lys Val Asp Leu Tyr Pro Thr Leu Ser Asp Gln Ile Arg Arg Trp
 835 840 845
 Gln Lys Ala Gln Lys Lys Ala Arg Pro Pro Ser Ser Arg Arg Pro Arg
 850 855 860
 Thr Arg Arg Ser Ser Ser Arg Arg Ser Gly Tyr Ala Phe Ala His Gln
 865 870 875 880
 Glu Gly Tyr Gly Glu Leu Ile Thr Ser Gly Lys Asn Met Arg Ala Lys
 885 890 895
 Asn Pro Pro Pro Thr Ser Gly Leu Glu Lys Thr His Tyr Asn Ser Thr
 900 905 910
 Ser Trp Ile Glu Asn Leu Cys Lys Lys Thr Thr Asp Thr Val Ser Ser
 915 920 925
 Phe Ser Gln Asp Lys Thr Val Lys Leu
 930 935

<210> 591

<211> 94

<212> PRT

<213> Homo sapiens

<400> 591

Met Leu Leu Ser Phe Tyr Cys Leu Pro Met Val Ser Ile His Ile Phe
 1 5 10 15

Phe Pro Cys Ala His Cys Val Tyr Leu Leu His Ile Ser Cys Ser Leu
20 25 30
Gly Glu Glu Ser Phe Asn Arg Asp Thr Cys Lys Lys Asp Phe Cys Phe
35 40 45
Ser Ile Gln Asn Val Asn Ser Thr Phe Leu Leu Ser Leu Ala Val Phe
50 55 60
Arg Phe Ser Glu Arg Phe Ser Asp Ser Asn Phe Leu Phe Thr Thr Pro
65 70 75 80
Pro Ile Cys Ser Glu Lys Asn Gly Leu Leu Tyr His Trp Ile
85 90

<210> 592
<211> 122
<212> PRT
<213> Homo sapiens

<400> 592
Met Ile Gly Gly Ile Thr Cys Ile Leu Ser Leu Ile Cys Ala Leu Ala
1 5 10 15
Leu Ala Tyr Leu Asp Gln Arg Ala Glu Arg Ile Leu His Lys Glu Gln
20 25 30
Gly Lys Thr Gly Glu Val Ile Lys Leu Thr Asp Val Lys Asp Phe Ser
35 40 45
Leu Pro Leu Trp Leu Ile Phe Ile Ile Cys Val Cys Tyr Tyr Val Ala
50 55 60
Val Phe Pro Phe Ile Gly Leu Gly Lys Val Phe Phe Thr Glu Lys Phe
65 70 75 80
Gly Phe Ser Ser Gln Ala Ala Ser Ala Ile Asn Ser Val Val Tyr Val
85 90 95
Ile Ser Ala Pro Met Ser Pro Val Phe Gly Leu Leu Val Asp Lys Thr
100 105 110
Gly Lys Asn Ile Ile Trp Val Leu Cys Ala
115 120

<210> 593
<211> 567
<212> PRT
<213> Homo sapiens

<400> 593
Met Ala Pro Leu Ala Leu His Leu Leu Val Leu Val Pro Ile Leu Leu
1 5 10 15

Ser Leu Val Ala Ser Gln Asp Trp Lys Ala Glu Arg Ser Gln Asp Pro
 20 25 30
 Phe Glu Lys Cys Met Gln Asp Pro Asp Tyr Glu Gln Leu Leu Lys Val
 35 40 45
 Val Thr Trp Gly Leu Asn Arg Thr Leu Lys Pro Gln Arg Val Ile Val
 50 55 60
 Val Gly Ala Gly Val Ala Gly Leu Val Ala Ala Lys Val Leu Ser Asp
 65 70 75 80
 Ala Gly His Lys Val Thr Ile Leu Glu Ala Asp Asn Arg Ile Gly Gly
 85 90 95
 Arg Ile Phe Thr Tyr Arg Asp Gln Asn Thr Gly Trp Ile Gly Glu Leu
 100 105 110
 Gly Ala Met Arg Met Pro Ser Ser His Arg Ile Leu His Lys Leu Cys
 115 120 125
 Gln Gly Leu Gly Leu Asn Leu Thr Lys Phe Thr Gln Tyr Asp Lys Asn
 130 135 140
 Thr Trp Thr Glu Val His Glu Val Lys Leu Arg Asn Tyr Val Val Glu
 145 150 155 160
 Lys Val Pro Glu Lys Leu Gly Tyr Ala Leu Arg Pro Gln Glu Lys Gly
 165 170 175
 His Ser Pro Glu Asp Ile Tyr Gln Met Ala Leu Asn Gln Ala Leu Lys
 180 185 190
 Asp Leu Lys Ala Leu Gly Cys Arg Lys Ala Met Lys Lys Phe Glu Arg
 195 200 205
 His Thr Leu Leu Glu Tyr Leu Leu Gly Glu Gly Asn Leu Ser Arg Pro
 210 215 220
 Ala Val Gln Leu Leu Gly Asp Val Met Ser Glu Asp Gly Phe Phe Tyr
 225 230 235 240
 Leu Ser Phe Ala Glu Ala Leu Arg Ala His Ser Cys Leu Ser Asp Arg
 245 250 255
 Leu Gln Tyr Ser Arg Ile Val Gly Gly Trp Asp Leu Leu Pro Arg Ala
 260 265 270
 Leu Leu Ser Ser Leu Ser Gly Leu Val Leu Leu Asn Ala Pro Val Val
 275 280 285
 Ala Met Thr Gln Gly Pro His Asp Val His Val Gln Ile Glu Thr Ser
 290 295 300
 Pro Pro Ala Arg Asn Leu Lys Val Leu Lys Ala Asp Val Val Leu Leu
 305 310 315 320

Thr Ala Ser Gly Pro Ala Val Lys Arg Ile Thr Phe Ser Pro Pro Leu
 325 330 335
 Pro Arg His Met Gln Glu Ala Leu Arg Arg Leu His Tyr Val Pro Ala
 340 345 350
 Thr Lys Val Phe Leu Ser Phe Arg Arg Pro Phe Trp Arg Glu Glu His
 355 360 365
 Ile Glu Gly Gly His Ser Asn Thr Asp Arg Pro Ser Arg Met Ile Phe
 370 375 380
 Tyr Pro Pro Pro Arg Glu Gly Ala Leu Leu Leu Ala Ser Tyr Thr Trp
 385 390 395 400
 Ser Asp Ala Ala Ala Phe Ala Gly Leu Ser Arg Glu Glu Ala Leu
 405 410 415
 Arg Leu Ala Leu Asp Asp Val Ala Ala Leu His Gly Pro Val Val Arg
 420 425 430
 Gln Leu Trp Asp Gly Thr Gly Val Val Lys Arg Trp Ala Glu Asp Gln
 435 440 445
 His Ser Gln Gly Gly Phe Val Val Gln Pro Pro Ala Leu Trp Gln Thr
 450 455 460
 Glu Lys Asp Asp Trp Thr Val Pro Tyr Gly Arg Ile Tyr Phe Ala Gly
 465 470 475 480
 Glu His Thr Ala Tyr Pro His Gly Trp Val Glu Thr Ala Val Lys Ser
 485 490 495
 Ala Leu Arg Ala Ala Ile Lys Ile Asn Ser Arg Lys Gly Pro Ala Ser
 500 505 510
 Asp Thr Ala Ser Pro Glu Gly His Ala Ser Asp Met Glu Gly Gln Gly
 515 520 525
 His Val His Gly Val Ala Ser Ser Pro Ser His Asp Leu Ala Lys Glu
 530 535 540
 Glu Gly Ser His Pro Pro Val Gln Gly Gln Leu Ser Leu Gln Asn Thr
 545 550 555 560
 Thr His Thr Arg Thr Ser His
 565

<210> 594
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 594

Met Pro Trp Leu Lys Ser Leu Leu His Phe Ser Leu Phe Leu Val Val
 1 5 10 15
 Phe Ser Thr Leu Ala Val Lys Ser Leu Gly Val Pro Val Ala Ala Gly
 20 25 30
 Ser Pro Phe Cys Ile Val Asp Val Leu His Phe Ile Leu Leu
 35 40 45

<210> 595
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 595
 Met Ser Trp Val Ile Val Val Ile Ile Trp Gly Tyr Leu Leu Glu Gly
 1 5 10 15
 His Gly Val Pro Phe Cys Lys Ser Tyr Gly Pro Ser Pro Trp Lys Leu
 20 25 30
 His Thr His His Ala Ala Tyr Asn Ser Gly Ser Ser Gln Val Tyr Arg
 35 40 45
 Ile Leu Glu Thr Leu Met Ser Gly Ser Thr His Cys Ser Phe Ser Gly
 50 55 60
 Thr Phe
 65

<210> 596
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 596
 Met Pro Arg Ala Pro Trp Arg Ile Pro Leu Cys Ala Leu Pro Thr Leu
 1 5 10 15
 Cys Leu Gly Ser Pro Leu Pro Ser Gln Pro Thr His Pro Ile Phe Tyr
 20 25 30
 Asp His Arg Ala Pro Thr Trp Lys Met Ala His Pro Gly Gly Pro Arg
 35 40 45
 Ser Ser His Ser Pro Arg Thr Trp Arg Thr Pro Ser Ser Gln Thr Lys
 50 55 60
 Ala Ala Leu Pro Ala Gly Gly Ala Arg Asn Ser Pro Leu Gln Leu Cys
 65 70 75 80
 Thr Arg Ser Arg Phe Cys Gly Thr Pro Met
 85 90

<210> 597
 <211> 710
 <212> PRT
 <213> Homo sapiens

<400> 597
 Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser Pro
 1 5 10 15
 Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr His
 20 25 30
 Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu Cys
 35 40 45
 Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro Thr
 50 55 60
 His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp Cys
 65 70 75 80
 Asp Leu Cys Leu Arg Val Ala Val His Leu Ala Val His Gly His Trp
 85 90 95
 Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Leu Gly
 100 105 110
 Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser
 115 120 125
 Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln Val
 130 135 140
 Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr
 145 150 155 160
 Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr
 165 170 175
 Thr Gln Pro Arg Tyr Glu Lys Glu Leu Asn His Thr Gln Gln Leu Pro
 180 185 190
 Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp Ala
 195 200 205
 Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Phe Gly
 210 215 220
 Leu Ser Leu Tyr Trp Asn Gln Val Gln Gly Pro Pro Lys Pro Arg Trp
 225 230 235 240
 His Lys Asn Leu Thr Gly Pro Gln Ile Ile Thr Leu Asn His Thr Asp
 245 250 255

Leu Val Pro Cys Leu Cys Ile Gln Val Trp Pro Leu Glu Pro Asp Ser
 260 265 270
 Val Arg Thr Asn Ile Cys Pro Phe Arg Glu Asp Pro Arg Ala His Gln
 275 280 285
 Asn Leu Trp Gln Ala Ala Arg Leu Arg Leu Leu Thr Leu Gln Ser Trp
 290 295 300
 Leu Leu Asp Ala Pro Cys Ser Leu Pro Ala Glu Ala Ala Leu Cys Trp
 305 310 315 320
 Arg Ala Pro Gly Gly Asp Pro Cys Gln Pro Leu Val Pro Pro Leu Ser
 325 330 335
 Trp Glu Asn Val Thr Val Asp Lys Val Leu Glu Phe Pro Leu Leu Lys
 340 345 350
 Gly His Pro Asn Leu Cys Val Gln Val Asn Ser Ser Glu Lys Leu Gln
 355 360 365
 Leu Gln Glu Cys Leu Trp Ala Asp Ser Leu Gly Pro Leu Lys Asp Asp
 370 375 380
 Val Leu Leu Leu Glu Thr Arg Gly Pro Gln Asp Asn Arg Ser Leu Cys
 385 390 395 400
 Ala Leu Glu Pro Ser Gly Cys Thr Ser Leu Pro Ser Lys Ala Ser Thr
 405 410 415
 Arg Ala Ala Arg Leu Gly Glu Tyr Leu Leu Gln Asp Leu Gln Ser Gly
 420 425 430
 Gln Cys Leu Gln Leu Trp Asp Asp Asp Leu Gly Ala Leu Trp Ala Cys
 435 440 445
 Pro Met Asp Lys Tyr Ile His Lys Arg Trp Ala Leu Val Trp Leu Ala
 450 455 460
 Cys Leu Leu Phe Ala Ala Ala Leu Ser Leu Ile Leu Leu Leu Lys Lys
 465 470 475 480
 Asp His Ala Lys Gly Trp Leu Arg Leu Leu Lys Gln Asp Val Arg Ser
 485 490 495
 Gly Ala Ala Ala Arg Gly Arg Ala Ala Leu Leu Leu Tyr Ser Ala Asp
 500 505 510
 Asp Ser Gly Phe Glu Arg Leu Val Gly Ala Leu Ala Ser Ala Leu Cys
 515 520 525
 Gln Leu Pro Leu Arg Val Ala Val Asp Leu Trp Ser Arg Arg Glu Leu
 530 535 540
 Ser Ala Gln Gly Pro Val Ala Trp Phe His Ala Gln Arg Arg Gln Thr
 545 550 555 560

Leu Gln Glu Gly Gly Val Val Val Leu Leu Phe Ser Pro Gly Ala Val
 565 570 575
 Ala Leu Cys Ser Glu Trp Leu Gln Asp Gly Val Ser Gly Pro Gly Ala
 580 585 590
 His Gly Pro His Asp Ala Phe Arg Ala Ser Leu Ser Cys Val Leu Pro
 595 600 605
 Asp Phe Leu Gln Gly Arg Ala Pro Gly Ser Tyr Val Gly Ala Cys Phe
 610 615 620
 Asp Arg Leu Leu His Pro Asp Ala Val Pro Ala Leu Phe Arg Thr Val
 625 630 635 640
 Pro Val Phe Thr Leu Pro Ser Gln Leu Pro Asp Phe Leu Gly Ala Leu
 645 650 655
 Gln Gln Pro Arg Ala Pro Arg Ser Gly Arg Leu Gln Glu Arg Ala Glu
 660 665 670
 Gln Val Ser Arg Ala Leu Gln Pro Ala Leu Asp Ser Tyr Phe His Pro
 675 680 685
 Pro Gly Thr Pro Ala Pro Gly Arg Gly Val Gly Pro Gly Ala Gly Pro
 690 695 700
 Gly Ala Gly Asp Gly Thr
 705 710

<210> 598
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 598
 Met Phe Ala Pro Cys Phe Val Asn Leu Ala Leu Phe Tyr Leu Tyr Ile
 1 5 10 15
 Asn Ser Cys Asn Leu Leu Asn Leu Thr Ser Ile Asp Pro Phe Gln Gln
 20 25 30
 Lys Gly Lys Phe Lys Met Gln Thr Leu Leu Phe Ala Lys Glu Asp Ser
 35 40 45

<210> 599
 <211> 200
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (144)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (149)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (160)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (173)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (177)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (189)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 599
 Met Phe Phe Leu Leu Cys Leu Val Ala Leu Glu Ile Lys Gly Phe Thr
 1 5 10 15
 Phe Ser Ala Arg Gly Ala Arg Asp Arg Phe Leu Asn Lys Ser Gly Pro
 20 25 30
 Gln Pro Gly Lys Lys Met Lys Thr Thr His Cys Lys Gln Pro Leu Phe
 35 40 45
 Ser Lys Pro Gly Gln Val Arg Gly Ala Leu Arg Lys Ala Arg Gly Arg
 50 55 60
 Gln Glu Glu Arg Glu Ala Val Gly Met Trp Gly Gly Arg Gly His Ser
 65 70 75 80
 Tyr Pro Glu Tyr Ile Lys Thr Ser Glu Val Thr Glu Val Arg Asp Ser
 85 90 95
 Pro Lys His Pro Gln Val Gln Pro Phe Leu Thr Thr Arg Val Thr Cys
 100 105 110
 Arg Val Pro Gly His Leu Gln Val Leu Glu Ala Leu Cys Gly Ala Trp
 115 120 125
 Gly Ser Met Phe Lys His Ala Leu Val Val Val Gln Val Pro Arg Xaa
 130 135 140

Arg Gly Arg Ala Xaa Leu Gly Ser Glu Trp Gln Val Gly Gln Leu Xaa
 145 150 155 160

Leu Ile Leu Leu His Gly Thr Gln His Trp Ala Ala Xaa Leu Val Pro
 165 170 175

Xaa Leu Pro Gln Glu Ser Ile Leu Pro Ala Gln Ser Xaa Arg Val Thr
 180 185 190

Asn Thr Pro Gly Thr Glu Glu Thr
 195 200

<210> 600
 <211> 467
 <212> PRT
 <213> Homo sapiens

<400> 600
 Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val
 1 5 10 15

Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser
 20 25 30

Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe
 35 40 45

Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr
 50 55 60

Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr
 65 70 75 80

Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His
 85 90 95

Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp
 100 105 110

Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly
 115 120 125

Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr
 130 135 140

Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser
 145 150 155 160

Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln
 165 170 175

Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu
 180 185 190

His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro
 195 200 205
 Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala
 210 215 220
 Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro
 225 230 235 240
 Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr
 245 250 255
 Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu
 260 265 270
 Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp
 275 280 285
 Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu
 290 295 300
 Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys
 305 310 315 320
 Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser
 325 330 335
 Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu
 340 345 350
 Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser
 355 360 365
 Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala
 370 375 380
 Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr
 385 390 395 400
 Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp
 405 410 415
 Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu
 420 425 430
 Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln
 435 440 445
 Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys
 450 455 460
 Ile Pro Lys
 465

<210> 601

<211> 802
 <212> PRT
 <213> Homo sapiens

<400> 601
 Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg
 1 5 10 15
 Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Cys Pro Gly Val Trp Pro
 20 25 30
 Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Ser Arg Asp
 35 40 45
 Lys Asp Arg Ser Ala Thr Val Ser Ser Ser Val Pro Met Pro Ala Gly
 50 55 60
 Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg
 65 70 75 80
 Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His Ala Tyr Asn Pro
 85 90 95
 Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys
 100 105 110
 Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp
 115 120 125
 Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg
 130 135 140
 Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg
 145 150 155 160
 Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser
 165 170 175
 Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro
 180 185 190
 Phe Val Gly Gly Thr Tyr Phe Pro Pro Glu Asp Gly Leu Thr Arg Val
 195 200 205
 Gly Phe Arg Thr Val Leu Leu Arg Ile Arg Glu Gln Trp Lys Gln Asn
 210 215 220
 Lys Asn Thr Leu Leu Glu Asn Ser Gln Arg Val Thr Thr Ala Leu Leu
 225 230 235 240
 Ala Arg Ser Glu Ile Ser Val Gly Asp Arg Gln Leu Pro Pro Ser Ala
 245 250 255
 Ala Thr Val Asn Asn Arg Cys Phe Gln Gln Leu Asp Glu Gly Tyr Asp
 260 265 270
 Glu Glu Tyr Gly Gly Phe Ala Glu Ala Pro Lys Phe Pro Thr Pro Val

275	280	285
Ile Leu Ser Phe Leu Phe Ser Tyr Trp Leu Ser His Arg Leu Thr Gln 290 295 300		
Asp Gly Ser Arg Ala Gln Gln Met Ala Leu His Thr Leu Lys Met Met 305 310 315 320		
Ala Asn Gly Gly Ile Arg Asp His Val Gly Gln Gly Phe His Arg Tyr 325 330 335		
Ser Thr Asp Arg Gln Trp His Val Pro His Phe Glu Lys Met Leu Tyr 340 345 350		
Asp Gln Ala Gln Leu Ala Val Ala Tyr Ser Gln Ala Phe Gln Leu Ser 355 360 365		
Gly Asp Glu Phe Tyr Ser Asp Val Ala Lys Gly Ile Leu Gln Tyr Val 370 375 380		
Ala Arg Ser Leu Ser His Arg Ser Gly Gly Phe Tyr Ser Ala Glu Asp 385 390 395 400		
Ala Asp Ser Pro Pro Glu Arg Gly Gln Arg Pro Lys Glu Gly Ala Tyr 405 410 415		
Tyr Val Trp Thr Val Lys Glu Val Gln Gln Leu Leu Pro Glu Pro Val 420 425 430		
Leu Gly Ala Thr Glu Pro Leu Thr Ser Gly Gln Leu Leu Met Lys His 435 440 445		
Tyr Gly Leu Thr Glu Ala Gly Asn Ile Ser Pro Ser Gln Asp Pro Lys 450 455 460		
Gly Glu Leu Gln Gly Gln Asn Val Leu Thr Val Arg Tyr Ser Leu Glu 465 470 475 480		
Leu Thr Ala Ala Arg Phe Gly Leu Asp Val Glu Ala Val Arg Thr Leu 485 490 495		
Leu Asn Ser Gly Leu Glu Lys Leu Phe Gln Ala Arg Lys His Arg Pro 500 505 510		
Lys Pro His Leu Asp Ser Lys Met Leu Ala Ala Trp Asn Gly Leu Met 515 520 525		
Val Ser Gly Tyr Ala Val Thr Gly Ala Val Leu Gly Gln Asp Arg Leu 530 535 540		
Ile Asn Tyr Ala Thr Asn Gly Ala Lys Phe Leu Lys Arg His Met Phe 545 550 555 560		
Asp Val Ala Ser Gly Arg Leu Met Arg Thr Cys Tyr Thr Gly Pro Gly 565 570 575		
Gly Thr Val Glu His Ser Asn Pro Pro Cys Trp Gly Phe Leu Glu Asp		

Gly Cys Ser Arg Gly Leu Pro Gly His Thr Pro Trp Arg Leu His Pro
 35 40 45
 Ala Ala Ala Ala Leu Leu Ala Pro Leu Leu His Asp Ala Leu Gly Ala
 50 55 60
 Cys Gly Phe Gln Gly Pro Glu Tyr Leu Leu Pro Cys Leu Leu Pro Leu
 65 70 75 80
 Pro Lys Pro Gly Gln Leu Gln Gly Pro Trp Gly Pro Leu Trp Ala Leu
 85 90 95
 Leu Pro

<210> 603
 <211> 365
 <212> PRT
 <213> Homo sapiens

<400> 603
 Met Phe Val Gly Leu Met Ala Phe Leu Leu Ser Phe Tyr Leu Ile Phe
 1 5 10 15
 Thr Asn Glu Gly Arg Ala Leu Lys Thr Ala Thr Ser Leu Ala Glu Gly
 20 25 30
 Leu Ser Leu Val Val Ser Pro Asp Ser Ile His Ser Val Ala Pro Glu
 35 40 45
 Asn Glu Gly Arg Leu Val His Ile Ile Gly Ala Leu Arg Thr Ser Lys
 50 55 60
 Leu Leu Ser Asp Pro Asn Tyr Gly Val His Leu Pro Ala Val Lys Leu
 65 70 75 80
 Arg Arg His Val Glu Met Tyr Gln Trp Val Glu Thr Glu Glu Ser Arg
 85 90 95
 Glu Tyr Thr Glu Asp Gly Gln Val Lys Lys Glu Thr Arg Tyr Ser Tyr
 100 105 110
 Asn Thr Glu Trp Arg Ser Glu Ile Ile Asn Ser Lys Asn Phe Asp Arg
 115 120 125
 Glu Ile Gly His Lys Asn Pro Ser Ala Met Ala Val Glu Ser Phe Met
 130 135 140
 Ala Thr Ala Pro Phe Val Gln Ile Gly Arg Phe Phe Leu Ser Ser Gly
 145 150 155 160
 Leu Ile Asp Lys Val Asp Asn Phe Lys Ser Leu Ser Leu Ser Lys Leu
 165 170 175

Glu	Asp	Pro	His	Val	Asp	Ile	Ile	Arg	Arg	Gly	Asp	Phe	Phe	Tyr	His
			180					185					190		
Ser	Glu	Asn	Pro	Lys	Tyr	Pro	Glu	Val	Gly	Asp	Leu	Arg	Val	Ser	Phe
		195					200					205			
Ser	Tyr	Ala	Gly	Leu	Ser	Gly	Asp	Asp	Pro	Asp	Leu	Gly	Pro	Ala	His
	210					215					220				
Val	Val	Thr	Val	Ile	Ala	Arg	Gln	Arg	Gly	Asp	Gln	Leu	Val	Pro	Phe
225				230						235					240
Ser	Thr	Lys	Ser	Gly	Asp	Thr	Leu	Leu	Leu	Leu	His	His	Gly	Asp	Phe
				245					250					255	
Ser	Ala	Glu	Glu	Val	Phe	His	Arg	Glu	Leu	Arg	Ser	Asn	Ser	Met	Lys
			260					265					270		
Thr	Trp	Gly	Leu	Arg	Ala	Ala	Gly	Trp	Met	Ala	Met	Phe	Met	Gly	Leu
		275					280					285			
Asn	Leu	Met	Thr	Arg	Ile	Leu	Tyr	Thr	Leu	Val	Asp	Trp	Phe	Pro	Val
	290					295					300				
Phe	Arg	Asp	Leu	Val	Asn	Ile	Gly	Leu	Lys	Ala	Phe	Ala	Phe	Cys	Val
305					310					315					320
Ala	Thr	Ser	Leu	Thr	Leu	Leu	Thr	Val	Ala	Ala	Gly	Trp	Leu	Phe	Tyr
				325					330					335	
Arg	Pro	Leu	Trp	Ala	Leu	Leu	Ile	Ala	Gly	Leu	Ala	Leu	Val	Pro	Ile
			340					345					350		
Leu	Val	Ala	Arg	Thr	Arg	Val	Pro	Ala	Lys	Lys	Leu	Glu			
		355					360					365			

<210> 604

<211> 608

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (265)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (597)

<223> Xaa equals any of the naturally occurring amino acids

<400> 604

Met	Val	Gly	Thr	Lys	Leu	Arg	Gln	Thr	Lys	Asp	Ala	Leu	Phe	Thr	Ile
1				5					10					15	

Leu His Asp Leu Arg Pro Gln Asp Arg Phe Ser Ile Ile Gly Phe Ser
 20 25 30
 Asn Arg Ile Lys Val Trp Lys Asp His Leu Ile Ser Val Thr Pro Asp
 35 40 45
 Ser Ile Arg Asp Gly Lys Val Tyr Ile His His Met Ser Pro Thr Gly
 50 55 60
 Gly Thr Asp Ile Asn Gly Val Leu Gln Arg Ala Ile Arg Leu Leu Asn
 65 70 75 80
 Lys Tyr Val Ala His Ser Gly Ile Gly Asp Arg Ser Val Ser Leu Ile
 85 90 95
 Val Phe Leu Thr Asp Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu
 100 105 110
 Lys Ile Leu Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile
 115 120 125
 Phe Thr Ile Gly Ile Gly Asn Asp Val Asp Phe Arg Leu Leu Glu Lys
 130 135 140
 Leu Ser Leu Glu Asn Cys Gly Leu Thr Arg Arg Val His Glu Glu Glu
 145 150 155 160
 Asp Ala Gly Ser Gln Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro
 165 170 175
 Leu Leu Ser Asp Ile Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln
 180 185 190
 Ala Thr Lys Thr Leu Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile
 195 200 205
 Ile Ala Gly Lys Leu Val Asp Arg Lys Leu Asp His Leu His Val Glu
 210 215 220
 Val Thr Ala Ser Asn Ser Lys Lys Phe Ile Ile Leu Lys Thr Asp Val
 225 230 235 240
 Pro Val Arg Pro Gln Lys Ala Gly Lys Asp Val Thr Gly Ser Pro Arg
 245 250 255
 Pro Gly Gly Asp Gly Glu Gly Asp Xaa Asn His Ile Glu Arg Leu Trp
 260 265 270
 Ser Tyr Leu Thr Thr Lys Glu Leu Leu Ser Ser Trp Leu Gln Ser Asp
 275 280 285
 Asp Glu Pro Glu Lys Glu Arg Leu Arg Gln Arg Ala Gln Ala Leu Ala
 290 295 300
 Val Ser Tyr Arg Phe Leu Thr Pro Phe Thr Ser Met Lys Leu Arg Gly
 305 310 315 320

Pro Val Pro Arg Met Asp Gly Leu Glu Glu Ala His Gly Met Ser Ala
 325 330 335
 Ala Met Gly Pro Glu Pro Val Val Gln Ser Val Arg Gly Ala Gly Thr
 340 345 350
 Gln Pro Gly Pro Leu Leu Lys Lys Pro Tyr Gln Pro Arg Ile Lys Ile
 355 360 365
 Ser Lys Thr Ser Val Asp Gly Asp Pro His Phe Val Val Asp Phe Pro
 370 375 380
 Leu Ser Arg Leu Thr Val Cys Phe Asn Ile Asp Gly Gln Pro Gly Asp
 385 390 395 400
 Ile Leu Arg Leu Val Ser Asp His Arg Asp Ser Gly Val Thr Val Asn
 405 410 415
 Gly Glu Leu Ile Gly Ala Pro Ala Pro Pro Asn Gly His Lys Lys Gln
 420 425 430
 Arg Thr Tyr Leu Arg Thr Ile Thr Ile Leu Ile Asn Lys Pro Glu Arg
 435 440 445
 Ser Tyr Leu Glu Ile Thr Pro Ser Arg Val Ile Leu Asp Gly Gly Asp
 450 455 460
 Arg Leu Val Leu Pro Cys Asn Gln Ser Val Val Val Gly Ser Trp Gly
 465 470 475 480
 Leu Glu Val Ser Val Ser Ala Asn Ala Asn Val Thr Val Thr Ile Gln
 485 490 495
 Gly Ser Ile Ala Phe Val Ile Leu Ile His Leu Tyr Lys Lys Pro Ala
 500 505 510
 Pro Phe Gln Arg His His Leu Gly Phe Tyr Ile Ala Asn Ser Glu Gly
 515 520 525
 Leu Ser Ser Asn Cys His Gly Leu Leu Gly Gln Phe Leu Asn Gln Asp
 530 535 540
 Ala Arg Leu Thr Glu Asp Pro Ala Gly Pro Ser Gln Asn Leu Thr His
 545 550 555 560
 Pro Leu Leu Leu Gln Val Gly Glu Gly Pro Glu Ala Val Leu Thr Val
 565 570 575
 Lys Gly His Gln Val Pro Val Val Trp Lys Gln Arg Lys Ile Tyr Asn
 580 585 590
 Gly Glu Glu Gln Xaa Asp Cys Trp Phe Ala Arg Asn Met Pro Pro Asn
 595 600 605

<210> 605
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 605
 Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
 1 5 10 15
 Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His
 20 25 30
 Ile Cys Ser Gln Arg Ser Ser Ser Trp Glu Met Pro Pro Gln Gly Pro
 35 40 45
 Ala Pro Asp His Val Gly Arg Ala
 50 55

<210> 606
 <211> 540
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 606
 Met Val Arg Thr Asp Gly His Thr Leu Ser Glu Lys Arg Asn Tyr Gln
 1 5 10 15
 Val Thr Asn Ser Met Phe Gly Ala Ser Arg Lys Lys Phe Val Glu Gly
 20 25 30
 Val Asp Ser Asp Tyr His Asp Glu Asn Met Tyr Tyr Ser Gln Ser Ser
 35 40 45
 Met Phe Pro His Arg Ser Gln Lys Asp Met Leu Ala Ser Pro Ser Thr
 50 55 60
 Ser Gly Gln Leu Ser Gln Phe Gly Ala Ser Leu Tyr Gly Gln Gln Ser
 65 70 75 80
 Ala Leu Gly Leu Pro Met Arg Gly Met Ser Asn Asn Thr Pro Gln Leu
 85 90 95
 Asn Arg Ser Leu Ser Gln Gly Thr Gln Leu Pro Ser His Val Thr Pro
 100 105 110
 Thr Thr Gly Val Pro Thr Met Ser Leu His Thr Pro Pro Ser Pro Ser
 115 120 125

Arg Gly Ile Leu Pro Met Asn Pro Xaa Asn Met Met Asn His Ser Gln
 130 135 140
 Val Gly Gln Gly Ile Gly Ile Pro Ser Arg Thr Asn Ser Met Se Ser
 145 150 155 160
 Ser Gly Leu Gly Ser Pro Asn Arg Ser Ser Pro Ser Ile Ile Cys Met
 165 170 175
 Pro Lys Gln Gln Pro Ser Arg Gln Pro Phe Thr Val Asn Se Met Ser
 180 185 190
 Gly Phe Gly Met Asn Arg Asn Gln Ala Phe Gly Met Asn Asn Ser Leu
 195 200 205
 Ser Ser Asn Ile Phe Asn Gly Thr Asp Gly Ser Glu Asn Val Thr Gly
 210 215 220
 Leu Asp Leu Ser Asp Phe Pro Ala Leu Ala Asp Arg Asn Arg Arg Glu
 225 230 235 240
 Gly Ser Gly Asn Pro Thr Pro Leu Ile Asn Pro Leu Ala Gly Arg Ala
 245 250 255
 Pro Tyr Val Gly Met Val Thr Lys Pro Ala Asn Glu Gln Ser Gln Asp
 260 265 270
 Phe Ser Ile His Asn Glu Asp Phe Pro Ala Leu Pro Gly Ser Ser Tyr
 275 280 285
 Lys Asp Pro Thr Ser Ser Asn Asp Asp Ser Lys Ser Asn Leu Asn Thr
 290 295 300
 Ser Gly Lys Thr Thr Ser Ser Thr Asp Gly Pro Lys Phe Pro Gly Asp
 305 310 315 320
 Lys Ser Ser Thr Thr Gln Asn Asn Asn Gln Gln Lys Lys Gly Ile Gln
 325 330 335
 Val Leu Pro Asp Gly Arg Val Thr Asn Ile Pro Gln Gly Met Val Thr
 340 345 350
 Asp Gln Phe Gly Met Ile Gly Leu Leu Thr Phe Ile Arg Ala Ala Glu
 355 360 365
 Thr Asp Pro Gly Met Val His Leu Ala Leu Gly Ser Asp Leu Thr Thr
 370 375 380
 Leu Gly Leu Asn Leu Asn Ser Pro Glu Asn Leu Tyr Pro Lys Phe Ala
 385 390 395 400
 Ser Pro Trp Ala Ser Ser Pro Cys Arg Pro Gln Asp Ile Asp Phe His
 405 410 415
 Val Pro Ser Glu Tyr Leu Thr Asn Ile His Ile Arg Asp Lys Leu Ala
 420 425 430

Ala Ile Lys Leu Gly Arg Tyr Gly Glu Asp Leu Leu Phe Tyr Leu Tyr
435 440 445

Tyr Met Asn Gly Gly Asp Val Leu Gln Leu Leu Ala Ala Val Glu Leu
450 455 460

Phe Asn Arg Asp Trp Arg Tyr His Lys Glu Glu Arg Val Trp Ile Thr
465 470 475 480

Arg Ala Pro Gly Met Glu Pro Thr Met Lys Thr Asn Thr Tyr Glu Arg
485 490 495

Gly Thr Tyr Tyr Phe Phe Asp Cys Leu Asn Trp Arg Lys Val Ala Lys
500 505 510

Glu Phe His Leu Glu Tyr Asp Lys Leu Glu Glu Arg Pro His Leu Pro
515 520 525

Ser Thr Phe Asn Tyr Asn Pro Ala Gln Gln Ala Phe
530 535 540

<210> 607
<211> 19
<212> PRT
<213> Homo sapiens

<400> 607
Met Ala Ala His Ser Val Leu Ser Phe Leu Leu Trp Thr Pro Tyr Ala
1 5 10 15

Leu Lys Ser

<210> 608
<211> 99
<212> PRT
<213> Homo sapiens

<400> 608
Met Leu Phe Phe Ieu Ser Leu Phe Leu Ser Leu Leu Leu Thr Leu Ser
1 5 10 15

Leu Pro Ser Phe Leu Pro Phe Ser Phe Phe Phe Ser Leu Phe Pro
20 25 30

His Leu Ser Ala Cys Ieu Leu Pro Ser Leu Pro Ser Pro Pro Phe Pro
35 40 45

Leu Pro Pro Ser Leu Pro Ser Phe Leu Pro Ser Phe Leu Pro Ser Phe
50 55 60

Leu Pro Ser Leu Leu Ser Pro Ser Phe Pro Aa Phe Phe Pro Ser Phe
65 70 75 80

Cys Gln Leu Ala Arg Arg Ser Pro Arg Lys Ser Thr Gln Met Leu Gln
85 90 95

Ser Thr Ser

<210> 609
<211> 66
<212> PRT
<213> Homo sapiens

<400> 609
Met Asn Tyr Ile Phe Leu Leu Met Ala Leu Pro His Leu Ile Ala Ile
1 5 10 15
Ala Leu Thr Trp Gly Arg Tyr Ser Phe Ser Cys Leu Ala Asn Lys Glu
20 25 30
Thr Glu Phe Gln Arg Cys Gln Val Thr Cys Leu Leu His Thr Leu Gly
35 40 45
Val Leu Met Phe Asn Phe Glu Leu Arg Ser Ile Trp Leu Glu Ser Ser
50 55 60
Leu His
65

<210> 610
<211> 72
<212> PRT
<213> Homo sapiens

<400> 610
Met Arg His Thr Cys Ile Val Asn Ile Ala Ala Ser Leu Leu Val Ala
1 5 10 15
Asn Thr Trp Phe Ile Val Val Ala Ala Ile Gln Asp Asn Arg Tyr Ile
20 25 30
Leu Cys Lys Thr Ala Cys Val Ala Ala Thr Phe Phe Ile His Phe Phe
35 40 45
Tyr Leu Ser Val Phe Phe Trp Met Leu Thr Leu Gly Pro His Ala Val
50 55 60
Leu Ser Pro Gly Phe His Ser Ala
65 70

<210> 611
<211> 41

<212> PRT
 <213> Homo sapiens

<400> 611
 Met Ile Asn Phe Trp Pro Val Thr His Val Cys Ile Trp Leu Leu Trp
 1 5 10 15
 Leu Gln Ala Leu Glu Ala Arg Gly Gln Gly Ser Asn Ile Asp Cys Thr
 20 25 30
 Arg Asn Ser Lys Thr Val Phe Thr Ser
 35 40

<210> 612
 <211> 201
 <212> PRT
 <213> Homo sapiens

<400> 612
 Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu
 20 25 30
 Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu Pro Pro Glu
 35 40 45
 Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr
 50 55 60
 Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg
 65 70 75 80
 Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu
 85 90 95
 Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile
 100 105 110
 Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val
 115 120 125
 Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile
 130 135 140
 Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val
 145 150 155 160
 Gly Met Ala Met Val Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu
 165 170 175
 Tyr Arg Lys Ala Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Glu
 180 185 190

Glu Lys Arg Asn Lys Ser Lys Lys Lys
 195 200

<210> 613
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 613
 Met Pro Pro Lys Gln Ile Pro Leu Thr Ser Leu Ser Leu Leu Aa Leu
 1 5 10 15
 Leu Leu Phe Phe Phe Phe Lys Ile Phe Cys Leu Leu Phe Leu Phe Tyr
 20 25 30
 Pro Leu Pro Asp Glu Ser Glu His Phe
 35 40

<210> 614
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 614
 Met Glu Ala Val Val Phe Val Phe Ser Leu Leu Asp Cys Cys Ala Leu
 1 5 10 15
 Ile Phe Leu Ser Val Tyr Phe Ile Ile Thr Leu Ser Asp Leu Glu Cys
 20 25 30
 Asp Tyr Ile Asn Ala Arg Ser Cys Cys Ser Lys Leu Asn Lys Trp Val
 35 40 45
 Ile Pro Glu Leu Ile Gly His Thr Ile Val Thr Val Leu Leu Le Met
 50 55 60
 Ser Leu His Trp Phe Ile Phe Leu Leu Asn Leu Pro Val Ala Thr Trp
 65 70 75 80
 Asn Ile Tyr Arg Tyr Ile Met Val Pro Ser Gly Asn Met Gly Val Phe
 85 90 95
 Asp Pro Thr Glu Ile His Asn Arg Gly Gln Leu Lys Ser His Met Lys
 100 105 110
 Glu Ala Met Ile Lys Leu Gly Phe His Leu Leu Cys Phe Phe Met Tyr
 115 120 125
 Leu Tyr Ser Met Ile Leu Ala Leu Ile Asn Asp
 130 135

<210> 615
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 615
 Met Leu Gly Leu Pro Trp Lys Gly Gly Leu Ser Trp Ala Leu LeuLeu
 1 5 10 15
 Leu Leu Leu Gly Ser Gln Ile Leu Leu Ile Tyr Ala Trp His Phe His
 20 25 30
 Glu Gln Arg Asp Cys Asp Glu His Asn Val Met Ala Arg Tyr Leu Pro
 35 40 45
 Ala Thr Val Glu Phe Ala Val His Thr Phe Asn Gln Gln Ser Lys Asp
 50 55 60
 Tyr Tyr Ala Tyr Arg Leu Gly His Ile Leu Asn Ser Trp Lys Glu Gln
 65 70 75 80
 Val Glu Ser Lys Thr Val Phe Ser Met Glu Leu Leu Leu Gly Arg Thr
 85 90 95
 Arg Cys Gly Lys Phe Glu Asp Asp Ile Asp Asn Cys His Phe Gln Glu
 100 105 110
 Ser Thr Glu Leu Asn Asn Thr Phe Thr Cys Phe Phe Thr Ile Ser Thr
 115 120 125
 Arg Pro Trp Met Thr Gln Phe Ser Leu Leu Asn Lys Thr Cys Leu Glu
 130 135 140
 Gly Phe His
 145

<210> 616
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 616
 Met Lys Ser Leu Leu Phe Thr Leu Ala Val Phe Met Leu Leu Ala Gln
 1 5 10 15
 Leu Val Ser Gly Asn Trp Tyr Val Lys Lys Cys Leu Asn Asp Val Gly
 20 25 30
 Ile Cys Lys Lys Lys Cys Lys Pro Glu Glu Met His Val Lys Asn Gly
 35 40 45
 Trp Ala Met Cys Gly Lys Gln Arg Asp Cys Cys Val Pro Ala Asp Arg
 50 55 60
 Arg Ala Asn Tyr Pro Val Phe Cys Val Gln Thr Lys Thr Thr Arg Ile

1	5	10	15
Val Ile Pro Ala Tyr Ser Gly Glu Lys Lys Cys Trp Asn Arg Ser Gly	20	25	30
His Cys Arg Lys Gln Cys Lys Asp Gly Glu Ala Val Lys Asp Thr Cys	35	40	45
Lys Asn Leu Arg Ala Cys Cys Ile Pro Ser Asn Glu Asp His Arg Arg	50	55	60
Val Pro Ala Thr Ser Pro Thr Pro Leu Ser Asp Ser Thr Pro Gly Ile	65	70	75
Ile Asp Asp Ile Leu Thr Val Arg Phe Thr Thr Asp Tyr Phe Glu Val	85	90	95
Ser Ser Lys Lys Asp Met Val Glu Glu Ser Glu Ala Gly Arg Gly Thr	100	105	110
Glu Thr Ser Leu Pro Asn Val His His Ser &r	115	120	

<210> 620
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 620

Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu	1	5	10	15
Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu	20	25	30	
Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu	35	40	45	
Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys	50	55	60	
Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu	65	70	75	80
Pro Lys Arg Lys Asn Thr Trp Asn Phe Leu Lys Cys Ala Tyr Met Val	85	90	95	
Met Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr Phe	100	105	110	
Ser Ser Gln Val Leu Leu Pro Leu Leu	115	120		

<210> 621
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 621
 Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile
 1 5 10 15
 Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val
 20 25 30
 Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro
 35 40 45
 Ala Glu Gln Gly Gly Pro Lys Thr Cys Cys Thr Leu Asp Asp Val Pro
 50 55 60
 Leu Ile Ser Gly Pro Asp Leu Pro Pro Ala Leu Arg Ala Ala Pro Gly
 65 70 75 80
 Ala Glu Ser Ala Leu Leu Gly
 85

<210> 622
 <211> 116
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 622
 Met Pro Gly Gly Thr Arg Cys Arg Val Leu Leu Leu Ser Leu Thr Phe
 1 5 10 15
 Gly Thr Ser Met Ala Cys Gly Asn Val Gly Leu Arg Leu Cys Pro Trp
 20 25 30
 Thr Trp His Asn Trp Leu Leu Pro Pro His Leu Cys Ser Xaa Trp Pro
 35 40 45
 Cys Arg Arg Cys Cys Trp Ala Ala Ala Thr Thr His Phe Ser Trp Pro
 50 55 60
 Pro Trp Val Arg Ser Ala Trp Gly Pro Pro Ala Ala Trp Leu Glu Ser
 65 70 75 80
 Ser Gly His Pro Leu Pro Ala Val Ala Ser Cys Ser Gln Pro Pro Ala
 85 90 95
 Ser Ala Asp Ser Ser Arg Phe Ser Lys Val Pro Cys Cys Arg Arg Arg
 100 105 110

Gly Trp Thr Arg
115

<210> 623
<211> 86
<212> PRT
<213> Homo sapiens

<400> 623
Met Pro Trp His Val Cys Phe Phe Leu Ser Gly Leu Leu Phe Pro Ser
1 5 10 15
Pro Gln Thr Ser Leu Gln His Leu Cys Leu Leu Thr Ser Leu Ile Leu
20 25 30
Gly Val Thr Ile Ser Ala Tyr Glu His Ala Ile Asn Leu Pro Ser Leu
35 40 45
Gln Asn Ser Leu Leu Thr Ser His Pro Ser Val Ala Ala Leu Ser Leu
50 55 60
Leu Ser Ser Ser Leu Gln Gln Asn Ser Leu Lys Glu Leu Leu Ala Gly
65 70 75 80
His Ser Gly Ser Leu Leu
85

<210> 624
<211> 61
<212> PRT
<213> Homo sapiens

<400> 624
Met Phe Cys Trp Ile Leu Val Cys Leu Ala Tyr Leu Lys Val Pro Leu
1 5 10 15
Leu Phe Phe Phe Phe Phe Phe Leu Ser Ala Leu Phe Cys Arg Thr Cys
20 25 30
Ser Asn Met Glu Asn Lys Ser Arg Arg Leu Ser Ser Asp Cys Tyr Leu
35 40 45
Cys Pro Lys Pro Pro Gln Thr Phe Met Leu Met Phe Tyr
50 55 60

<210> 625
<211> 352
<212> PRT
<213> Homo sapiens

<400> 625

Met Leu Cys Arg Leu Cys Trp Leu Val Ser Tyr Ser Leu Ala Val Leu
1 5 10 15
Leu Leu Gly Cys Leu Leu Phe Leu Arg Lys Ala Ala Lys Pro Ala Glu
20 25 30
Thr Pro Arg Pro Thr Ser Leu Ser Gly Ala Pro Pro Thr Pro Arg His
35 40 45
Ser Arg Cys Pro Pro Asn His Thr Val Ser Ser Ala Ser Leu Ser Leu
50 55 60
Pro Ser Arg His Arg Leu Phe Leu Thr Tyr Arg His Cys Arg Asn Phe
65 70 75 80
Ser Ile Leu Leu Glu Pro Ser Gly Cys Ser Lys Asp Thr Phe Leu Leu
85 90 95
Leu Ala Ile Lys Ser Gln Pro Gly His Val Glu Arg Arg Ala Ala Ile
100 105 110
Arg Ser Thr Trp Gly Arg Trp Gly Asp Gly Leu Gly Pro Ala Leu Lys
115 120 125
Leu Val Phe Leu Leu Gly Val Ala Gly Ser Ala Pro Pro Ala Gln Leu
130 135 140
Leu Ala Tyr Glu Ser Arg Glu Phe Asp Asp Ile Leu Gln Trp Asp Phe
145 150 155 160
Thr Glu Asp Phe Phe Asn Leu Thr Leu Lys Glu Leu His Leu Gln Arg
165 170 175
Trp Val Val Ala Ala Cys Pro Gln Ala His Phe Met Leu Lys Gly Asp
180 185 190
Asp Asp Val Phe Val His Val Pro Asn Val Leu Glu Phe Leu Asp Gly
195 200 205
Trp Asp Pro Ala Gln Asp Leu Leu Val Gly Asp Val Ile Arg Gln Ala
210 215 220
Leu Pro Asn Arg Asn Thr Lys Val Lys Tyr Phe Ile Pro Pro Ser Met
225 230 235 240
Tyr Arg Ala Thr His Tyr Pro Pro Tyr Ala Gly Gly Gly Gly Tyr Val
245 250 255
Met Ser Arg Ala Thr Val Arg Arg Leu Gln Ala Ile Met Glu Asp Ala
260 265 270
Glu Leu Phe Pro Ile Asp Asp Val Phe Val Gly Met Cys Leu Arg Arg
275 280 285
Leu Gly Leu Ser Pro Met His His Ala Gly Phe Lys Thr Phe Gly Ile
290 295 300

Arg Arg Pro Leu Asp Pro Leu Asp Pro Cys Leu Tyr Arg Gly Leu Leu
 305 310 315 320

Leu Val His Arg Leu Ser Pro Leu Glu Met Trp Thr Met Trp Ala Leu
 325 330 335

Val Thr Asp Glu Gly Leu Lys Cys Ala Ala Gly Pro Ile Pro Gln Arg
 340 345 350

<210> 626
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 626
 Gly Leu Leu Tyr Ile Met Tyr Cys Asn Ile
 1 5 10

<210> 627
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 627
 Met Val Lys Trp Ile Ile Leu Ser Cys Leu Ile Leu Lys Gly Lys Arg
 1 5 10 15

Thr Leu Asn Ser Ser Thr Phe Tyr Ala Ala Asn Lys Ser Ser Thr Ile
 20 25 30

Asn Arg Asn Leu Ser Trp Gln Ala Leu Pro Phe Thr His
 35 40 45

<210> 628
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 628
 Met Arg Ser Tyr Phe Pro Phe Ser Val Cys Pro Phe Pro Phe Cys Ser
 1 5 10 15

Pro Val Phe Phe Phe Val Phe Thr Asp Val Tyr Leu Cys Phe Phe Phe
 20 25 30

Val Phe Ala Val Gly Arg His Leu Ser Asp Pro Phe Pro Ile Leu Phe
 35 40 45

Phe Thr His Lys Cys Pro Asp Val
50 55

<210> 629
<211> 38
<212> PRT
<213> Homo sapiens

<400> 629
Met Leu Lys Leu Ala Thr Ile Leu Leu Thr Leu Leu Leu Lys Asn Leu
1 5 10 15
Asp Ala Gly Leu Thr Asp Lys Leu Ser Arg Ser Asn Phe Ile Thr Asp
20 25 30
Phe Ile Leu Thr Lys Tyr
35

<210> 630
<211> 44
<212> PRT
<213> Homo sapiens

<400> 630
Met Pro Cys His Gly Leu Leu Ala Gln Gly Leu Ser Leu Ala Pro Leu
1 5 10 15
Pro Pro Trp Ala Leu Cys Cys Val Gly Val Ser Arg Ala Leu Gln Asp
20 25 30
Ile Gln Gln His Pro Arg Pro Pro Ala Pro Cys Gln
35 40

<210> 631
<211> 34
<212> PRT
<213> Homo sapiens

<400> 631
Met Gln Ala Arg Trp Phe His Ile Leu Gly Met Met Met Phe Ile Trp
1 5 10 15
Ser Ser Ala His Gln Tyr Lys Cys Pro Cys Tyr Ser Arg Gln Ser Gln
20 25 30
Glu Lys

<210> 632
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 632
 Met Val His Asn Cys Leu Leu Leu Leu Lys Phe Leu Leu Leu Phe Cys
 1 5 10 15
 Phe Pro Leu Ile Ser Tyr Gln Leu Met Asn Gly Ser Leu Gln Ser Leu
 20 25 30
 Gln Arg Leu Arg Met Ile Gln Asn Val Gln Cys Ile Val Leu Asn Lys
 35 40 45
 Gln Glu Ala Glu Phe Leu Met Gly Ile Ser Phe Gln Ile Tyr Asp Trp
 50 55 60
 Ser Leu Gly Phe
 65

<210> 633
 <211> 194
 <212> PRT
 <213> Homo sapiens

<400> 633
 Met Lys Leu Ala Ser Gly Phe Leu Val Leu Trp Leu Ser Leu Gly Gly
 1 5 10 15
 Gly Leu Ala Gln Ser Asp Thr Ser Pro Asp Thr Glu GluSer Tyr Ser
 20 25 30
 Asp Trp Gly Leu Arg His Leu Arg Gly Ser Phe Glu Ser Val Asn Ser
 35 40 45
 Tyr Phe Asp Ser Phe Leu Glu Leu Leu Gly Gly Lys Asn Gly Val Cys
 50 55 60
 Gln Tyr Arg Cys Arg Tyr Gly Lys Ala Pro Met Pro Arg Pro Gly Tyr
 65 70 75 80
 Lys Pro Gln Glu Pro Asn Gly Cys Gly Ser Tyr Phe Leu Gly Leu Lys
 85 90 95
 Val Pro Glu Ser Met Asp Leu Gly Ile Pro Ala Met Thr Lys Cys Cys
 100 105 110
 Asn Gln Leu Asp Val Cys Tyr Asp Thr Cys Gly Ala Asn Lys Tyr Arg
 115 120 125
 Cys Asp Ala Lys Phe Arg Trp Cys Leu His Ser Ile Cys Ser Asp Leu
 130 135 140
 Lys Arg Ser Leu Gly Phe Val Ser Lys Val Glu Ala Cys Asp Ser Leu

145 150 155 160
 Val Asp Thr Val Phe Asn Thr Val Trp Thr Leu Gly Cys Arg Pro Phe
 165 170 175
 Met Asn Ser Gln Arg Ala Ala Cys Ile Cys Ala Glu Glu Glu Lys Glu
 180 185 190
 Glu Leu

<210> 634
 <211> 79
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (23)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 634
 Met Gly Cys Cys Ser Lys Lys Tyr Trp Gln Leu Leu Leu Gly Ala Ala
 1 5 10 15
 Pro Trp Gly Val Ile Pro Xaa Leu Leu Leu Trp Met Gly Thr Arg Ala
 20 25 30
 Pro His Phe Lys Asp Ser Val Ser Gln Gly Leu Pro Xaa Lys Ala Glu
 35 40 45
 Glu Ser Arg Ala Asn Phe Asn Gln Phe Leu Val Leu Leu Met Pro Lys
 50 55 60
 Glu Met Ile Val Leu Thr Ile Val His Pro Ile Val Arg Arg Ala
 65 70 75

<210> 635
 <211> 162
 <212> PRT
 <213> Homo sapiens

<400> 635
 Met Thr Ser Asn Phe Pro Phe Cys Thr Leu Ile Leu Gly Ile Ala Gln
 1 5 10 15
 Ala Gln Ala Cys Pro Gly Cys Pro Gly Asp Trp Pro Gly Leu Gly Ser
 20 25 30

Gly Val Gly Glu Gly Leu His His Ile Arg Thr Cys Arg Trp Pro Ile
 35 40 45
 Pro Cys Ser Pro Pro Ala Pro Ala Ala Ala Cys Leu Gly Ser Gly His
 50 55 60
 Ala Arg Leu Pro Cys Val Leu Arg Leu Trp Pro Val Pro Ala Asn Leu
 65 70 75 80
 Ser Ser Pro Phe Arg Leu Glu Ala Leu His Cys Ser Phe Trp Ser Ser
 85 90 95
 Pro Leu Leu Pro Ala Pro His Leu Ala Phe Phe Gly Phe Arg Asp Leu
 100 105 110
 Leu Thr Asp Phe Leu Leu Ala Ala Cys Leu Leu Thr Phe Gln Lys Thr
 115 120 125
 Pro Leu Glu Leu Pro Met Ala Val Val His Leu Leu Val Ala Thr Pro
 130 135 140
 Cys Tyr Gln Met Leu Asp Asn Leu Pro Leu Pro Ser Ala Ala Ala Asn
 145 150 155 160
 Trp Cys

<210> 636
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 636
 Met Ile Leu Leu Ile Ser Gln Cys Pro Leu Ser Ile Phe Ala Ala Pro
 1 5 10 15
 Phe Ala Leu Pro Pro Lys Gly His Cys Gly Ser Phe Ser Asp Phe His
 20 25 30
 Ser Gln Val Thr Leu His Lys Asn Ser Lys Leu Ile Phe Arg Ser His
 35 40 45
 Lys Ser Ile Leu Leu
 50

<210> 637
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 637
 Met Leu Leu Phe Ser Ser Arg Phe Ile Met PheLeu Trp Pro Pro Val

1 5 10 15
 Ser Gly Val Cys Leu Ser Phe Ile Arg Asp Arg Ser Phe Leu Pro Met
 20 25 30
 Cys His Phe Ile Tyr Val Leu Ile Leu Cys Asn Ser Ile Ala Leu
 35 40 45

<210> 638
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 638
 Met Ser Tyr Lys Trp Asn Ser Arg Val Cys Phe Leu Trp Ser Arg Thr
 1 5 10 15
 Phe His Leu Met Leu Leu Arg Leu Ile Cys Leu Val Ala Tyr Ile Ser
 20 25 30
 Thr Glu Val Ile Ser Phe Ile Ala Glu
 35 40

<210> 639
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 639
 Met Thr Leu Met Cys Leu Cys Leu Ser Val Thr Val Leu His Pro Leu
 1 5 10 15
 Arg Ser Lys Glu Arg Leu Ser Gly Thr Phe Cys Gly Tyr Ser Ser Ser
 20 25 30
 Trp Cys Ser Pro Ala Ser Glu Ser Ser Ser Pro Gly Ser Leu Leu Thr
 35 40 45
 Cys Ala Ala Ser Gly Ser His Pro Asp Cys Pro Leu Ser Gln Arg Leu
 50 55 60
 Leu Gly Val Gln Leu Ala Ala Leu Gly Arg Pro Gln Gly Leu Phe
 65 70 75

<210> 640
 <211> 292
 <212> PRT
 <213> Homo sapiens

<400> 640
 Met Leu Arg Val Leu Cys Leu Leu Arg Pro Trp Arg Pro Leu Arg Ala

1	5	10	15
Arg Gly Cys Ala Ser Asp Gly Ala Ala Gly Gly Ser Glu Ile Gln Val	20	25	30
Arg Ala Leu Ala Gly Pro Asp Gln Gly Ile Thr Glu Ile Leu Met Asn	35	40	45
Arg Pro Ser Ala Arg Asn Ala Leu Gly Asn Val Phe Val Ser Glu Leu	50	55	60
Leu Glu Thr Leu Ala Gln Leu Arg Glu Asp Arg Gln Val Arg Val Leu	65	70	80
Leu Phe Arg Ser Gly Val Lys Gly Val Phe Cys Ala Gly Ala Asp Leu	85	90	95
Lys Glu Arg Glu Gln Met Ser Glu Ala Glu Val Gly Val Phe Val Gln	100	105	110
Arg Leu Arg Gly Leu Met Asn Asp Ile Ala Ala Phe Pro Ala Pro Thr	115	120	125
Ile Ala Ala Met Asp Gly Phe Ala Leu Gly Gly Gly Leu Glu Leu Ala	130	135	140
Leu Ala Cys Asp Leu Arg Val Ala Ala Ser Ser Ala Val Met Gly Leu	145	150	160
Ile Glu Thr Thr Arg Gly Leu Leu Pro Gly Ala Gly Gly Thr Gln Arg	165	170	175
Leu Pro Arg Cys Leu Gly Val Ala Leu Ala Lys Glu Leu Ile Phe Thr	180	185	190
Gly Arg Arg Leu Ser Gly Thr Glu Ala His Val Leu Gly Leu Val Asn	195	200	205
His Ala Val Ala Gln Asn Glu Glu Gly Asp Ala Ala Tyr Gln Arg Ala	210	215	220
Arg Ala Leu Ala Gln Glu Ile Leu Pro Gln Ala Pro Ile Ala Val Arg	225	230	235
Leu Gly Lys Val Ala Ile Asp Arg Gly Thr Glu Val Asp Ile Ala Ser	245	250	255
Gly Met Ala Ile Glu Gly Met Cys Tyr Ala Gln Asn Ile Pro Thr Arg	260	265	270
Asp Arg Leu Glu Gly Met Ala Ala Phe Arg Glu Lys Arg Thr Pro Lys	275	280	285
Phe Val Gly Lys	290		

<210> 641
 <211> 377
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (164)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (213)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 641
 Met Ala Thr Ala Met Asp Trp Leu Pro Trp Ser Leu Leu Leu Phe Ser
 1 5 10 15
 Leu Met Cys Glu Thr Ser Ala Phe Tyr Val Pro Gly Val Ala Pro Ile
 20 25 30
 Asn Phe His Gln Asn Asp Pro Val Glu Ile Lys Ala Val Lys Leu Thr
 35 40 45
 Ser Ser Arg Thr Gln Leu Pro Tyr Glu Tyr Tyr Ser Leu Pro Phe Cys
 50 55 60
 Gln Pro Ser Lys Ile Thr Tyr Lys Ala Glu Asn Leu Gly Glu Val Leu
 65 70 75 80
 Arg Gly Asp Arg Ile Val Asn Thr Pro Phe Gln Val Leu Met Asn Ser
 85 90 95
 Glu Lys Lys Cys Glu Val Leu Cys Ser Gln Ser Asn Lys Pro Val Thr
 100 105 110
 Leu Thr Val Glu Gln Ser Arg Leu Val Ala Glu Arg Ile Thr Glu Asp
 115 120 125
 Tyr Tyr Val His Leu Ile Ala Asp Asn Leu Pro Val Ala Thr Arg Leu
 130 135 140
 Glu Leu Tyr Ser Asn Arg Asp Ser Asp Asp Lys Lys Lys Glu Ser Asp
 145 150 155 160
 Ile Lys Trp Xaa Ser Arg Trp Asp Thr Tyr Leu Thr Met Ser Asp Val
 165 170 175
 Gln Ile His Trp Phe Ser Ile Ile Asn Ser Val Val Val Val Phe Phe
 180 185 190
 Leu Ser Gly Ile Leu Ser Met Ile Ile Ile Arg Thr Leu Arg Lys Asp
 195 200 205
 Ile Ala Asn Tyr Xaa Lys Glu Asp Asp Ile Glu Asp Thr Met Glu Glu

210		215		220
Ser Gly Trp Lys Leu Val His Gly Asp Val Phe Arg Pro Pro Pro Val				
225		230	235	240
Pro His Asp Pro Gln Leu Pro Ala Gly Leu Arg HisSer Ala Val Leu				
	245		250	255
Tyr Asp Pro His Arg His Leu Cys Ser His Ala Trp Asp Ala Val Ala				
	260		265	270
Leu Gln Pro Gly Ser Ser His Asp His Ser Leu Leu ProLeu His Val				
	275		280	285
His Gly Gly Val Trp Arg Ile Phe Cys Trp Pro Ser Val Pro His Phe				
	290	295	300	
Lys Arg Pro Ser Val Glu Glu Arg Ser Leu Leu Tyr Gly Asn Ser Val				
305	310		315	320
Pro Trp Cys Gly Phe Trp His Leu Leu Arg Ile Glu Leu Leu His Leu				
	325		330	335
Gly Lys Ala Leu Ile Arg Ser Gly Ala Leu Ser His His Gly Gly Ser				
	340		345	350
Ala Val His Val Val Arg Asp Leu Pro Ala Pro Arg Leu Leu Gly Leu				
	355		360	365
Leu Leu Arg Leu Pro Lys Ala Ala Ile				
370		375		

<210> 642
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 642
 Met Ile Met Ala Gln Lys Ile Gly Gly Leu Thr Trp Trp Ala Ile Met
 1 5 10 15
 Phe Ile Ile Leu Phe Glu Ile Thr Gly Thr Ser Ser Ser Phe Leu Arg
 20 25 30
 Ile Asn Ala Leu Pro His Phe Ser Met Asn Arg Cys Gly Glu Ala Tyr
 35 40 45
 Phe Pro Phe Ser Tyr Leu Tyr Thr Ser Leu Gln Lys Gln Phe Leu Met
 50 55 60
 Lys Val Ser Gly Ile Val Lys Asn Leu Arg Gly Asn Asp Asp Trp Arg
 65 70 75 80
 Cys Phe Gly Val Phe Phe Cys Ile His Phe Leu Met Arg Lys Val Leu
 85 90 95

Asn Val Val Gln Val Arg Pro Asn Tyr Tyr Leu Thr Ile Ile Gly Arg
 100 105 110

Phe Tyr Val Ser Val Lys Val Phe Lys
 115 120

<210> 643
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 643
 Met Phe His Ser Ser Leu Leu Val Phe Leu Ser Leu Leu Ser Gln Glu
 1 5 10 15
 Ile Phe Thr Glu Tyr Asp Cys Met His Lys
 20 25

<210> 644
 <211> 76
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 644
 Met Asn Arg Gly Gln Arg Leu Cys Leu Ala Phe Val Ser Leu Phe Pro
 1 5 10 15
 Pro Cys Asn Ser Leu Xaa Pro Pro Pro Thr Leu Phe Pro Ser Pro Leu
 20 25 30
 Leu Pro Leu Ser Leu Thr Ser Pro Thr Pro His Ser Leu Ser Ser Leu
 35 40 45
 Ala Val Ser Cys Val Cys Val Gly Val Cys Val Phe Gly Cys Val Asn
 50 55 60
 Val Gly Ser Ser Thr Thr Gly Phe Cys Asn Leu Gly
 65 70 75

<210> 645
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 645

Met Tyr Ile Tyr Leu Ile His Leu Cys Met Cys Val Tyr Ile Tyr Ile
 1 5 10 15
 Tyr Ile Leu Leu Ile Ile Tyr Thr Leu Asp Pro Glu Pro Pro Ser Trp
 20 25 30
 Ser Pro Lys Leu Asp Ser His Leu Ser Leu Arg Gln Pro Ser Asn Asp
 35 40 45
 Arg Phe
 50

<210> 646
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 646
 Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg
 1 5 10 15
 Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg
 20 25 30
 Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala
 35 40 45
 Ser Met Val Ser Arg Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr
 50 55 60
 Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser
 65 70 75 80
 Lys Ser

<210> 647
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 647
 Met Phe Met Trp Thr Ile Ser Ile Val Thr Phe Ser Ile Pro Leu Th
 1 5 10 15
 Leu Pro Leu Pro Leu Arg Gly Glu Asn Lys Thr Leu Asn Gly Ser Asn
 20 25 30
 Ser Tyr Val Phe Tyr Phe Val Ser Glu Val Ser Lys Leu Leu Leu Leu
 35 40 45
 Ala Ser Phe Ser Leu Gly Gln Met Asp Val Ser Tyr Phe Pro Val Ser
 50 55 60

<210> 648
 <211> 390
 <212> PRT
 <213> Homo sapiens

<400> 648

```
Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu
  1           5           10           15

Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln
      20           25           30

Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val
      35           40           45

Val Leu Pro Ala Trp Tyr Thr Leu His Gly Glu Val Ser Ser Ser Gln
      50           55           60

Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys
      65           70           75           80

Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro
      85           90           95

Gly Val Ser Leu Val Tyr Ser Met Pro Ser Arg Asn Leu Ser Leu Arg
      100          105          110

Leu Glu Gly Leu Gln Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val
      115          120          125

Asn Val Gln Asp Lys Gln Gly Lys Ser Arg Gly His Ser Ile Lys Thr
      130          135          140

Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro Ser Cys Arg Leu
      145          150          155          160

Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser
      165          170          175

Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro
      180          185          190

Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser
      195          200          205

Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys
      210          215          220

Lys Ala His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu
      225          230          235          240
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Val Ser Thr Gly Pro Gly Ala Ala Val Val Ala Gly Ala Val Val Gly
 245 250 255
 Thr Leu Val Gly Leu Gly Leu Leu Ala Gly Leu Val Leu Leu Tyr His
 260 265 270
 Arg Arg Gly Lys Ala Leu Glu Glu Pro Ala Asn Asp Ile Lys Glu Asp
 275 280 285
 Ala Ile Ala Pro Arg Thr Leu Pro Trp Pro Lys Ser Ser Asp Thr Ile
 290 295 300
 Ser Lys Asn Gly Thr Leu Ser Ser Val Thr Ser Ala Arg Ala Leu Arg
 305 310 315 320
 Pro Pro His Gly Pro Pro Arg Pro Gly Ala Leu Thr Pro Thr Pro Ser
 325 330 335
 Leu Ser Ser Gln Ala Leu Pro Ser Pro Arg Leu Pro Thr Thr Asp Gly
 340 345 350
 Ala His Pro Gln Pro Ile Ser Pro Ile Pro Gly Gly Val Ser Ser Ser
 355 360 365
 Gly Leu Ser Arg Met Gly Ala Val Pro Val Met Val Pro Ala Gln Ser
 370 375 380
 Gln Ala Gly Ser Leu Val
 385 390

<210> 649

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring amino acids

<400> 649

Met Val Leu His Cys Ile Ala Trp Leu Gln Xaa Gly Ile SerPhe Leu
 1 5 10 15

Phe Leu Phe Leu Cys Val Ile Ala Ile Gly Ala Thr Asn Phe Ala Ser
 20 25 30

Pro Xaa Phe Tyr Lys Leu Val Ser Ser Gly Val Ala
 35 40

<210> 650
 <211> 89
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 650
 Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val Xaa Xaa Gly Thr Gln
 1 5 10 15
 Ser Pro Leu His Leu Ala Gly Ser Cys Pro Gly Gln Thr His Leu Ser
 20 25 30
 Phe Pro Leu Gly Gln Asp Arg Gly Gln Gln Leu Gln Gln Lys Gln Gln
 35 40 45
 Asp Leu Glu Gln Glu Gly Leu Glu Ala Thr Gln Gly Leu Leu Ala Gly
 50 55 60
 Glu Trp Ala Pro Pro Leu Trp Xaa Leu Gly Ser Leu Phe Gln Ala Phe
 65 70 75 80
 Val Lys Arg Glu Ser Gln Ala Tyr Ala
 85

<210> 651
 <211> 52
 <212> PRT
 <213> Homo sapiens

 <400> 651
 Met Leu Tyr Asp Ser Asn Leu Cys Ser Val Trp His Leu Tyr Leu Ile
 1 5 10 15
 Leu His Leu Cys Lys Thr Phe Val Tyr Cys Gly Cys Val His Ser Ser
 20 25 30
 Tyr Leu Ile Ser Gly Thr Val Asn Thr Gln Tyr Phe Ile Val Gln Thr
 35 40 45

Val Leu Leu Phe
50

<210> 652
<211> 66
<212> PRT
<213> Homo sapiens

<400> 652
Met Leu Leu Ile Ser Ala Val Gln Val Phe Ile Leu Leu Ser Pro Ser
1 5 10 15
Phe Tyr Leu Ile Leu Tyr Leu Leu Arg Pro Gly Gly Thr Gly Arg Gly
20 25 30
Leu Glu Pro Ile Cys Pro Ala Ala Glu Trp Gly Gly Trp Arg Asp Gly
35 40 45
Tyr Leu Trp Leu Gln Tyr Gln Glu Pro Thr Val Ser Leu Asp Asn Trp
50 55 60
Gly Asn
65

<210> 653
<211> 508
<212> PRT
<213> Homo sapiens

<400> 653
Met Asp Pro Lys Leu Gly Arg Met Ala Ala Ser Leu Leu Ala Val Leu
1 5 10 15
Leu Leu Leu Leu Leu Glu Arg Gly Met Phe Ser Ser Pro Ser Pro Pro
20 25 30
Pro Ala Leu Leu Glu Lys Val Phe Gln Tyr Ile Asp Leu His Gln Asp
35 40 45
Glu Phe Val Gln Thr Leu Lys Glu Trp Val Ala Ile Glu Ser Asp Ser
50 55 60
Val Gln Pro Val Pro Arg Phe Arg Gln Glu Leu Phe Arg Met Met Ala
65 70 75 80
Val Ala Ala Asp Thr Leu Gln Arg Leu Gly Ala Arg Val Ala Ser Val
85 90 95
Asp Met Gly Pro Gln Gln Leu Pro Asp Gly Gln Ser Leu Pro Ile Pro
100 105 110
Pro Val Ile Leu Ala Glu Leu Gly Ser Asp Pro Thr Lys Gly Thr Val

115					120					125					
Cys	Phe	Tyr	Gly	His	Leu	Asp	Val	Gln	Pro	Ala	Asp	Arg	Gly	Asp	Gly
130					135					140					
Trp	Leu	Thr	Asp	Pro	Tyr	Val	Leu	Thr	Glu	Val	Asp	Gly	Lys	Leu	Tyr
145					150					155					160
Gly	Arg	Gly	Ala	Thr	Asp	Asn	Lys	Gly	Pro	Val	Leu	Ala	Trp	Ile	Asn
				165					170					175	
Ala	Val	Ser	Ala	Phe	Arg	Ala	Leu	Glu	Gln	Asp	Leu	Pro	Val	Asn	Ile
			180					185						190	
Lys	Phe	Ile	Ile	Glu	Gly	Met	Glu	Glu	Ala	Gly	Ser	Val	Ala	Leu	Glu
	195						200					205			
Glu	Leu	Val	Glu	Lys	Glu	Lys	Asp	Arg	Phe	Phe	Ser	Gly	Val	Asp	Tyr
	210					215					220				
Ile	Val	Ile	Ser	Asp	Asn	Leu	Trp	Ile	Ser	Gln	Arg	Lys	Pro	Ala	Ile
225					230					235					240
Thr	Tyr	Gly	Thr	Arg	Gly	Asn	Ser	Tyr	Phe	Met	Val	Glu	Val	Lys	Cys
				245					250					255	
Arg	Asp	Gln	Asp	Phe	His	Ser	Gly	Thr	Phe	Gly	Gly	Ile	Leu	His	Glu
			260					265					270		
Pro	Met	Ala	Asp	Leu	Val	Ala	Leu	Leu	Gly	Ser	Leu	Val	Asp	Ser	Ser
		275					280					285			
Gly	His	Ile	Leu	Val	Pro	Gly	Ile	Tyr	Asp	Glu	Val	Val	Pro	Leu	Thr
	290					295					300				
Glu	Glu	Glu	Ile	Asn	Thr	Tyr	Lys	Ala	Ile	His	Leu	Asp	Leu	Glu	Glu
305					310					315					320
Tyr	Arg	Asn	Ser	Ser	Arg	Val	Glu	Lys	Phe	Leu	Phe	Asp	Thr	Lys	Glu
				325					330					335	
Glu	Ile	Leu	Met	His	Leu	Trp	Arg	Tyr	Pro	Ser	Leu	Ser	Ile	His	Gly
			340					345					350		
Ile	Glu	Gly	Ala	Phe	Asp	Glu	Pro	Gly	Thr	Lys	Thr	Val	Ile	Pro	Gly
		355					360					365			
Arg	Val	Ile	Gly	Lys	Phe	Ser	Ile	Arg	Leu	Val	Pro	His	Met	Asn	Val
	370					375					380				
Ser	Ala	Val	Glu	Lys	Gln	Val	Thr	Arg	His	Leu	Glu	Asp	Val	Phe	Ser
385					390					395					400
Lys	Arg	Asn	Ser	Ser	Asn	Lys	Met	Val	Val	Ser	Met	Thr	Leu	Gly	Leu
				405					410					415	
His	Pro	Trp	Ile	Ala	Asn	Ile	Asp	Asp	Thr	Gln	Tyr	Leu	Ala	Ala	Lys

	420		425		430										
Arg	Ala	Ile	Arg	Thr	Val	Phe	Gly	Thr	Glu	Pro	Asp	Met	Ile	Arg	Asp
	435						440					445			
Gly	Ser	Thr	Ile	Pro	Ile	Ala	Lys	Met	Phe	Gln	Glu	Ile	Val	His	Lys
	450					455					460				
Ser	Val	Val	Leu	Ile	Pro	Leu	Gly	Ala	Val	Asp	Asp	Gly	Glu	His	Ser
465					470					475					480
Gln	Asn	Glu	Lys	Ile	Asn	Arg	Trp	Asn	Tyr	Ile	Glu	Gly	Thr	Lys	Leu
				485					490					495	
Phe	Ala	Ala	Phe	Phe	Leu	Glu	Met	Ala	Gln	Leu	His				
			500					505							

<210> 654
 <211> 295
 <212> PRT
 <213> Homo sapiens

<400> 654															
Met	Ser	Trp	Pro	His	Gly	Ala	Leu	Leu	Phe	Leu	Trp	Leu	Phe	Ser	Pro
1				5					10					15	
Pro	Leu	Gly	Ala	Gly	Gly	Gly	Gly	Val	Ala	Val	Thr	Ser	Ala	Ala	Gly
			20					25					30		
Gly	Gly	Ser	Pro	Pro	Ala	Thr	Ser	Cys	Pro	Val	Ala	Cys	Ser	Cys	Ser
		35					40					45			
Asn	Gln	Ala	Ser	Arg	Val	Ile	Cys	Thr	Arg	Arg	Asp	Leu	Ala	Glu	Val
50						55					60				
Pro	Ala	Ser	Ile	Pro	Val	Asn	Thr	Arg	Tyr	Leu	Asn	Leu	Gln	Glu	Asn
65					70					75					80
Gly	Ile	Gln	Val	Ile	Arg	Thr	Asp	Thr	Phe	Lys	His	Leu	Arg	His	Leu
				85					90					95	
Glu	Ile	Leu	Gln	Leu	Ser	Lys	Asn	Leu	Val	Arg	Lys	Ile	Glu	Val	Gly
			100					105					110		
Ala	Phe	Asn	Gly	Leu	Pro	Ser	Leu	Asn	Thr	Leu	Glu	Leu	Phe	Asp	Asn
		115					120					125			
Arg	Leu	Thr	Thr	Val	Pro	Thr	Gln	Ala	Phe	Glu	Tyr	Leu	Ser	Lys	Leu
	130					135					140				
Arg	Glu	Leu	Trp	Leu	Arg	Asn	Asn	Pro	Ile	Glu	Ser	Ile	Pro	Ser	Tyr
145					150					155					160
Ala	Phe	Asn	Arg	Val	Pro	Ser	Leu	Arg	Arg	Leu	Asp	Leu	Gly	Glu	Leu
				165					170					175	

Lys Arg Leu Glu Tyr Ile Ser Glu Ala Ala Phe Glu Gly Leu Val Asn
 180 185 190
 Leu Arg Tyr Leu Asn Leu Gly Met Cys Asn Leu Lys Asp Ile Pro Asn
 195 200 205
 Leu Thr Ala Leu Val Arg Leu Glu Glu Leu Glu Leu Ser Gly Asn Arg
 210 215 220
 Leu Asp Leu Ile Arg Pro Gly Ser Phe Gln Gly Leu Thr Ser Leu Arg
 225 230 235 240
 Lys Leu Trp Leu Met His Ala Gln Val Ala Thr Ile Glu Arg Asn Ala
 245 250 255
 Phe Asp Asp Leu Lys Ser Leu Glu Glu Leu Asn Leu Ser His Asn Asn
 260 265 270
 Leu Met Ser Leu Pro His Asp Leu Phe Thr Pro Leu His Arg Leu Glu
 275 280 285
 Gly Gly Pro Gly Thr Gln Phe
 290 295

<210> 655
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 655
 Met Cys Phe Thr Gln Phe Ser Arg Ile Phe Phe Leu Thr Ser Ser Leu
 1 5 10 15
 Thr Leu Ala Ala Cys Ala Asn His Ile Leu Ala Ala Tyr Ser Ser Ser
 20 25 30
 Leu Ala Asp Arg Cys Val Gly Glu Lys Ser Leu Ile Val Ile Val Pro
 35 40 45
 Glu Arg Ser Phe Gln Thr His Phe
 50 55

<210> 656
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 656
 Met Arg Lys Thr Ala Trp Leu Cys Phe Phe Phe Gln Leu Cys Gly Leu
 1 5 10 15
 Gly Gln Val Thr Ser Leu Gln Tyr Arg Asn Cys Asn Val Glu Ile Lys

20 25 30
 Pro Ser Leu Val Arg Gly Thr His Arg Ser Ile Pro
 35 40

<210> 657
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 657
 Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
 1 5 10 15
 Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Asn Gln Arg Gln Lys
 20 25 30
 Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
 35 40 45
 Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Asp Tyr Trp Glu Gln
 50 55 60
 Leu Arg Cys Leu Xaa Glu Arg Phe Thr Ile Thr Ala Gly
 65 70 75

<210> 658
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 658
 Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
 1 5 10 15
 Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
 20 25 30
 Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
 35 40 45
 Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
 50 55 60
 Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
 65 70 75 80
 Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met

85 90 95
 Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
 100 105

 <210> 659
 <211> 44
 <212> PRT
 <213> Homo sapiens

 <400> 659
 Met Arg Leu Arg Asn Gly Thr Val Ala Thr Ala Leu Ala Phe Ile Thr
 1 5 10 15
 Ser Phe Leu Thr Leu Ser Trp Tyr Thr Thr Trp Gln Asn Gly Lys Gly
 20 25 30
 Lys Glu Asn Asp Ser Glu Asn Val His Glu Met Tyr
 35 40

 <210> 660
 <211> 327
 <212> PRT
 <213> Homo sapiens

 <400> 660
 Met Ala Cys Arg Lys Leu Ala Val Ala His Pro Leu Leu Leu Leu Arg
 1 5 10 15
 His Leu Pro Met Ile Ala Ala Leu Leu His Gly Arg Thr His Leu Asn
 20 25 30
 Phe Gln Glu Phe Arg Gln Gln Asn His Leu Ser Cys Phe Leu His Val
 35 40 45
 Leu Gly Leu Leu Glu Leu Leu Gln Pro His Val Phe Arg Ser Glu His
 50 55 60
 Gln Gly Ala Leu Trp Asp Cys Leu Leu Ser Phe Ile Arg Leu Leu Leu
 65 70 75 80
 Asn Tyr Arg Lys Ser Ser Arg His Leu Ala Ala Phe Ile Asn Lys Phe
 85 90 95
 Val Gln Phe Ile His Lys Tyr Ile Thr Tyr Asn Ala Pro Ala Ala Ile
 100 105 110
 Ser Phe Leu Gln Lys His Ala Asp Pro Leu His Asp Leu Ser Phe Asp
 115 120 125
 Asn Ser Asp Leu Val Met Leu Lys Ser Leu Leu Ala Gly Leu Ser Leu
 130 135 140

Pro Ser Arg Asp Asp Arg Thr Asp Arg Gly Leu Asp Glu Glu Gly Glu
 145 150 155 160
 Glu Glu Ser Ser Ala Gly Ser Leu Pro Leu Val Ser Val Ser Leu Phe
 165 170 175
 Thr Pro Leu Thr Ala Ala Glu Met Ala Pro Tyr Met Lys Arg Leu Ser
 180 185 190
 Arg Gly Gln Thr Val Glu Asp Leu Leu Gh Val Leu Ser Asp Ile Asp
 195 200 205
 Glu Met Ser Arg Arg Arg Pro Glu Ile Leu Ser Phe Phe Ser Thr Asn
 210 215 220
 Leu Gln Arg Leu Met Ser Ser Ala Glu Glu Cys Cys Arg Asn Leu Ala
 225 230 235 240
 Phe Ser Leu Ala Leu Arg Ser Met Gln Asn Ser Pro Ser Ile Ala Ala
 245 250 255
 Ala Phe Leu Pro Thr Phe Met Tyr Cys Leu Gly Ser Gln Asn Phe Glu
 260 265 270
 Val Val Gln Thr Ala Leu Arg Asn Leu Pro Glu Tyr Ala Leu Leu Cys
 275 280 285
 Gln Glu His Ala Ala Val Leu Leu His Arg Ala Phe Leu Val Gly Met
 290 295 300
 Tyr Gly Gln Met Asp Pro Ser Ala Gln Ile Ser Glu Ala Leu Arg Ile
 305 310 315 320
 Leu His Met Glu Ala Val Met
 325

<210> 661

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring amino acids

<400> 661

Met Asn Val Thr Ser Val Ile Leu Val Leu Ile Leu Trp Asn Val Ile
 1 5 10 15

Gly Val Ala Thr Trp Val His Gln Asn Thr Phe Leu Tyr Lys Arg Gln
 20 25 30

Met Xaa Glu Leu Lys Arg Leu Lys Asp Arg Val Phe Cys Phe Phe Val
 35 40 45

Leu Ile Trp Leu Leu Gly Ile Lys Ile Arg Pro Arg Ser Leu Lys Ile
50 55 60
Ser Asn Arg Gly Arg Pro Leu Ile Asp Leu Lys Ser Val Asn Ser Leu
65 70 75 80

<210> 662
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring amino acids

<400> 662
Met Ala Ala Leu Leu Leu Leu Pro Trp Leu Met Leu Leu Thr Gly Arg
1 5 10 15
Val Ser Leu Ala Gln Phe Ala Leu Ala Phe Val Thr Asp Thr Cys Val
20 25 30
Ala Gly Ala Leu Leu Cys Gly Ala Xaa Leu Leu Phe His Gly Met Leu
35 40 45
Leu Leu Arg Gly Gln Thr Thr Trp Glu Trp Ala Arg Gly Gln His Ser
50 55 60
Tyr Asp Leu Gly Pro Cys His Asn Leu Gln Ala Ala Leu Gly Pro Arg
65 70 75 80
Trp Ala Leu Val Trp Leu Trp Pro Phe Leu Ala Ser Pro Leu Pro Gly
85 90 95
Asp Gly Ile Thr Phe Gln Thr Thr Ala Asp Val Gly Xaa Thr Ala Ser
100 105 110

<210> 663
<211> 91
<212> PRT

<213> Homo sapiens

<400> 663

Met Gly Asp Lys Leu Gly Met Ala Arg Ala Pro Ser Val Ala Leu Ala
1 5 10 15
Gln Leu Trp Leu Ile Cys Leu Cys Pro Glu Ser Leu Ala Ser Phe Val
20 25 30
Gln Ala Val Pro Trp Lys Val Leu Gln Pro Ser Ser Asn Arg Ser Thr
35 40 45
Asp Cys Ser Pro His Met Arg Pro Thr Cys Glu Thr Leu Gly Ser Arg
50 55 60
Lys Ala Gln Asp Leu Val Leu Asp Thr Met Cys Leu Ser Thr Asp Asp
65 70 75 80
Cys Gln Gly Leu Ile Cys Arg Gly His Arg Ser
85 90

<210> 664

<211> 223

<212> PRT

<213> Homo sapiens

<400> 664

Ala Trp Tyr Leu Leu Arg Val Gln Val Leu Gln Leu Val Ala Asn Tyr
1 5 10 15
Leu Ser Leu Pro Ser Asn Asn Leu Ser His Ser Leu Trp Glu Gln Leu
20 25 30
Cys Ala Gln Gly Trp Gln Thr Pro Glu Ile Ala Leu Ile Asp Ser His
35 40 45
Lys Leu Leu Arg Ser Ile Ile Leu Leu Leu Met Gly Ser Asp Ile Leu
50 55 60
Ser Thr Gln Lys Ala Ala Val Glu Thr Ser Phe Leu Asp Tyr Gly Glu
65 70 75 80
Asn Leu Val Gln Lys Trp Gln Val Leu Ser Glu Val Leu Ser Cys Ser
85 90 95
Glu Lys Leu Val Cys His Leu Gly Arg Leu Gly Ser Val Ser Glu Ala
100 105 110
Lys Ala Phe Cys Leu Glu Ala Leu Lys Leu Thr Thr Lys Leu Gln Ile
115 120 125
Pro Arg Gln Cys Ala Leu Phe Leu Val Leu Lys Gly Glu Leu Glu Leu
130 135 140
Ala Arg Asn Asp Ile Asp Leu Cys Gln Ser Asp Leu Gln Gln Val Leu

145 150 155 160
 Phe Leu Leu Glu Ser Cys Thr Glu Phe Gly Gly Val Thr Gln His Leu
 165 170 175
 Asp Ser Val Lys Lys Val His Leu Gln Lys Gly Lys Gln Gln Ala Gln
 180 185 190
 Val Pro Cys Pro Pro Gln Leu Pro Glu Glu Glu Leu Phe Leu Arg Gly
 195 200 205
 Pro Ala Leu Glu Leu Val Pro Leu Trp Pro Arg Ser Leu Ala Pro
 210 215 220

<210> 665
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 665
 Met Gly Val Leu Leu Leu Phe Ser Phe Phe Phe Pro Asn GlySer Phe
 1 5 10 15
 Ser Pro Val Val Leu Pro Ser Tyr Phe Pro Asn Ser Ser Ser Tyr Phe
 20 25 30
 Val Phe Cys Thr Ser Phe Trp Arg Pro Leu Ser Phe Gln Lys Gly
 35 40 45

<210> 666
 <211> 243
 <212> PRT
 <213> Homo sapiens

<400> 666
 Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln
 1 5 10 15
 Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg
 20 25 30
 Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile
 35 40 45
 Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser
 50 55 60
 Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp
 65 70 75 80
 Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr
 85 90 95

Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn
 100 105 110
 Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser
 115 120 125
 Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala
 130 135 140
 Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu
 145 150 155 160
 Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys
 165 170 175
 Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr
 180 185 190
 His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His
 195 200 205
 Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val
 210 215 220
 Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile
 225 230 235 240
 Gly Tyr Gln

<210> 667
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 667
 Met Lys Leu Ser Gly Met Phe Leu Leu Leu Ser Leu Ala Leu Phe Cys
 1 5 10 15
 Phe Leu Thr Gly Val Phe Ser Gln Gly Gly Gln Val Asp Cys Gly Glu
 20 25 30
 Phe Gln Asp Thr Lys Val Tyr Cys Thr Arg Glu Ser Asn Pro His Cys
 35 40 45
 Gly Ser Asp Gly Gln Thr Tyr Gly Asn Lys Cys Ala Phe Cys Lys Ala
 50 55 60
 Ile Val Lys Ser Gly Gly Lys Ile Ser Leu Lys His Pro Gly Lys Cys
 65 70 75 80

<210> 668
 <211> 301
 <212> PRT
 <213> Homo sapiens

<400> 668

Met	Ala	Arg	His	Gly	Leu	Pro	Leu	Leu	Pro	Leu	Asn	Ser	Leu	Leu	Val
1				5					10					15	
Gly	Ala	Trp	Leu	Lys	Leu	Gly	Asn	Gly	Gln	Ala	Thr	Ser	Met	Val	Gln
			20					25					30		
Leu	Gln	Gly	Gly	Arg	Phe	Leu	Met	Gly	Thr	Asn	Ser	Pro	Asp	Ser	Arg
		35					40					45			
Asp	Gly	Glu	Gly	Pro	Val	Arg	Glu	Ala	Thr	Val	Lys	Pro	Phe	Ala	Ile
	50					55					60				
Asp	Ile	Phe	Pro	Val	Thr	Asn	Lys	Asp	Phe	Arg	Asp	Phe	Val	Arg	Glu
65					70				75						80
Lys	Lys	Tyr	Arg	Thr	Glu	Ala	Glu	Met	Phe	Gly	Trp	Ser	Phe	Val	Phe
				85					90					95	
Glu	Asp	Phe	Val	Ser	Asp	Glu	Leu	Arg	Asn	Lys	Ala	Thr	Gln	Pro	Met
			100					105					110		
Lys	Ser	Val	Leu	Trp	Trp	Leu	Pro	Val	Glu	Lys	Ala	Phe	Trp	Arg	Gln
		115					120					125			
Pro	Ala	Gly	Pro	Gly	Ser	Gly	Ile	Arg	Glu	Arg	Leu	Glu	His	Pro	Val
	130					135					140				
Leu	His	Val	Ser	Trp	Asn	Asp	Ala	Arg	Ala	Tyr	Cys	Ala	Trp	Arg	Gly
145					150					155					160
Lys	Arg	Leu	Pro	Thr	Glu	Glu	Glu	Trp	Glu	Phe	Ala	Ala	Arg	Gly	Gly
				165					170					175	
Leu	Lys	Gly	Gln	Val	Tyr	Pro	Trp	Gly	Asn	Trp	Phe	Gln	Pro	Asn	Arg
			180					185					190		
Thr	Asn	Leu	Trp	Gln	Gly	Lys	Phe	Pro	Lys	Gly	Asp	Lys	Ala	Glu	Asp
		195					200					205			
Gly	Phe	His	Gly	Val	Ser	Pro	Val	Asn	Ala	Phe	Pro	Ala	Gln	Asn	Asn
	210					215					220				
Tyr	Gly	Leu	Tyr	Asp	Leu	Leu	Gly	Asn	Val	Trp	Glu	Trp	Thr	Ala	Ser
225					230					235				240	
Pro	Tyr	Gln	Ala	Ala	Glu	Gln	Asp	Met	Arg	Val	Leu	Arg	Gly	Ala	Ser
			245						250					255	
Trp	Ile	Asp	Thr	Ala	Asp	Gly	Ser	Ala	Asn	His	Arg	Ala	Arg	Val	Thr
			260					265					270		

Thr Arg Met Gly Asn Thr Pro Asp Ser Ala Ser Asp Asn Leu Gly Phe
 275 280 285

Arg Cys Ala Ala Asp Ala Gly Arg Pro Pro Gly Glu Leu
 290 295 300

<210> 669
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 669
 Met Ala Ser Gly Ser Trp Thr Ser Ala Pro Gly Ile Gly Val Ile Leu
 1 5 10 15

Val Met Thr Val Cys Leu Ser His Cys Tyr Thr His Glu Trp Gly Leu
 20 25 30

Trp Gly Gly Gly Gly Thr Gln Gly Leu Thr Asp Ser
 35 40

<210> 670
 <211> 438
 <212> PRT
 <213> Homo sapiens

<400> 670
 Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg GlnTrp Ile Arg Pro
 1 5 10 15

Leu Val Ala Val Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu
 20 25 30

Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile HisThr Lys Ala
 35 40 45

Trp Phe Ile Ala Gly Ile Phe Leu Leu Leu Thr Ile Pro Ile Ser Leu
 50 55 60

Trp Val Ile Leu Gln His Leu Val His Tyr Thr Gln Pro Glu Leu Gln
 65 70 75 80

Lys Pro Ile Ile Arg Ile Leu Trp Met Val Pro Ile Tyr Ser Leu Asp
 85 90 95

Ser Trp Ile Ala Leu Lys Tyr Pro Gly Ile Ala Ile Tyr Val Asp Thr
 100 105 110

Cys Arg Glu Cys Tyr Glu Ala Tyr Val Ile Tyr Asn Phe Met Gly Phe
 115 120 125

Leu Thr Asn Tyr Leu Thr Asn Arg Tyr Pro Asn Leu Val Leu Ile Leu

130		135		140
Glu Ala Lys Asp Gln Gln Lys His Phe Pro Pro Leu Cys Cys Cys Pro				
145		150		155
Pro Trp Ala Met Gly Glu Val Leu Leu Phe Arg Cys Lys Leu Gly Val				
	165		170	175
Leu Gln Tyr Thr Val Val Arg Pro Phe Thr Thr Ile Val Ala Leu Ile				
	180		185	190
Cys Glu Leu Leu Gly Ile Tyr Asp Glu Gly Asn Phe Ser Phe Ser Asn				
	195		200	205
Ala Trp Thr Tyr Leu Val Ile Ile Asn Asn Met Ser Gln Leu Phe Ala				
	210		215	220
Met Tyr Cys Leu Leu Leu Phe Tyr Lys Val Leu Lys Glu Glu Leu Ser				
	225		230	235
Pro Ile Gln Pro Val Gly Lys Phe Leu Cys Val Lys Leu Val Val Phe				
	245		250	255
Val Ser Phe Trp Gln Ala Val Val Ile Ala Leu Leu Val Lys Val Gly				
	260		265	270
Val Ile Ser Glu Lys His Thr Trp Glu Trp Gln Thr Val Glu Ala Val				
	275		280	285
Ala Thr Gly Leu Gln Asp Phe Ile Ile Cys Ile Glu Met Phe Leu Ala				
	290		295	300
Ala Ile Ala His His Tyr Thr Phe Ser Tyr Lys Pro Tyr Val Gln Glu				
	305		310	315
Ala Glu Glu Gly Ser Cys Phe Asp Ser Phe Leu Ala Met Trp Asp Val				
	325		330	335
Ser Asp Ile Arg Asp Asp Ile Ser Glu Gln Val Arg His Val Gly Arg				
	340		345	350
Thr Val Arg Gly His Pro Arg Lys Lys Leu Phe Pro Glu Asp Gln Asp				
	355		360	365
Gln Asn Glu His Thr Ser Leu Leu Ser Ser Ser Ser Gln Asp Ala Ile				
	370		375	380
Ser Ile Ala Ser Ser Met Pro Pro Ser Pro Met Gly His Tyr Gln Gly				
	385		390	395
Phe Gly His Thr Val Thr Pro Gln Thr Thr Pro Thr Thr Ala Lys Ile				
	405		410	415
Ser Asp Glu Ile Leu Ser Asp Thr Ile Gly Glu Lys Lys Glu Pro Ser				
	420		425	430
Asp Lys Ser Val Asp Ser				

435

<210> 671
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 671
 Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr
 1 5 10 15
 Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Tp Met Pro Ile Tyr Pro
 20 25 30
 Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr
 35 40 45
 Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Ap Leu Ser
 50 55 60
 Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile
 65 70 75 80
 Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Glu Arg Arg Asp Ile
 85 90 95
 Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met
 100 105

<210> 672
 <211> 234
 <212> PRT
 <213> Homo sapiens

<400> 672
 Met Arg Ile Arg Phe Thr Ser Pro His Pro Lys Asp Phe Pro Asp Glu
 1 5 10 15
 Val Leu Gln Leu Ile His Glu Arg Asp Asn Ile Cys Lys Gln Ile His
 20 25 30
 Leu Pro Ala Gln Ser Gly Ser Ser Arg Va Leu Glu Ala Met Arg Arg
 35 40 45
 Gly Tyr Ser Arg Glu Ala Tyr Val Glu Leu Val His His Ile Arg Glu
 50 55 60
 Ser Ile Pro Gly Val Ser Leu Ser Ser Asp Phe Ile Ala Gly Pa Cys
 65 70 75 80
 Gly Glu Thr Glu Glu Asp His Val Gln Thr Val Ser Leu Leu Arg Glu
 85 90 95

Val Gln Tyr Asn Met Gly Phe Leu Phe Ala Tyr Ser Met Arg Gln Lys
 100 105 110
 Thr Arg Ala Tyr His Arg Leu Lys Asp Asp Val Pro Glu Glu Val Lys
 115 120 125
 Leu Arg Arg Leu Glu Glu Leu Ile Thr Ile Phe Arg Glu Glu Ala Thr
 130 135 140
 Lys Ala Asn Gln Thr Ser Val Gly Cys Thr Gln Leu Val Leu Val Glu
 145 150 155 160
 Gly Leu Ser Lys Arg Ser Ala Thr Asp Leu Cys Gly Arg Asn Asp Gly
 165 170 175
 Asn Leu Lys Val Ile Phe Pro Asp Ala Glu Met Glu Asp Val Asn Asn
 180 185 190
 Pro Gly Leu Arg Val Arg Ala Gln Pro Gly Asp Tyr Val Leu Val Lys
 195 200 205
 Ile Thr Ser Ala Ser Ser Gln Thr Leu Arg Gly His Val Leu Cys Arg
 210 215 220
 Thr Thr Leu Arg Asp Ser Ser Ala Tyr Cys
 225 230

<210> 673
 <211> 470
 <212> PRT
 <213> Homo sapiens

<400> 673
 Met Trp Phe Thr Tyr Leu Leu Leu Tyr Leu His Ser Val Arg Ala Tyr
 1 5 10 15
 Ser Ser Arg Gly Ala Gly Leu Leu Leu Leu Gly Gln Val Ala Asp
 20 25 30
 Gly Leu Cys Thr Pro Leu Val Gly Tyr Glu Ala Asp Arg Ala Ala Ser
 35 40 45
 Cys Cys Ala Arg Tyr Gly Pro Arg Lys Ala Trp His Leu Val Gly Thr
 50 55 60
 Val Cys Val Leu Leu Ser Phe Pro Phe Ile Phe Ser Pro Cys Leu Gly
 65 70 75 80
 Cys Gly Ala Ala Thr Pro Glu Trp Ala Ala Leu Leu Tyr Tyr Gly Pro
 85 90 95
 Phe Ile Val Ile Phe Gln Phe Gly Trp Ala Ser Thr Gln Ile Ser His
 100 105 110
 Leu Ser Leu Ile Pro Glu Leu Val Thr Asn Asp His Glu Lys Val Glu

115					120					125					
Leu	Thr	Ala	Leu	Arg	Tyr	Ala	Phe	Thr	Val	Val	Ala	Asn	Ile	Thr	Val
	130					135					140				
Tyr	Gly	Ala	Ala	Trp	Leu	Leu	Leu	His	Leu	Gln	Gly	Ser	Ser	Arg	Val
145					150					155					160
Glu	Pro	Thr	Gln	Asp	Ile	Ser	Ile	Ser	Asp	Gln	Leu	Gly	Gly	Gln	Asp
				165					170					175	
Val	Pro	Val	Phe	Arg	Asn	Leu	Ser	Leu	Leu	Val	Val	Gly	Val	Gly	Ala
			180					185					190		
Val	Phe	Ser	Leu	Leu	Phe	His	Leu	Gly	Thr	Arg	Glu	Arg	Arg	Arg	Pro
		195					200					205			
His	Ala	Glu	Glu	Pro	Gly	Glu	His	Thr	Pro	Leu	Leu	Ala	Pro	Ala	Thr
	210					215					220				
Ala	Gln	Pro	Leu	Leu	Leu	Trp	Lys	His	Trp	Leu	Arg	Glu	Pro	Ala	Phe
225					230					235					240
Tyr	Gln	Val	Gly	Ile	Leu	Tyr	Met	Thr	Thr	Arg	Leu	Ile	Val	Asn	Leu
				245					250					255	
Ser	Gln	Thr	Tyr	Met	Ala	Met	Tyr	Leu	Thr	Tyr	Ser	Leu	His	Leu	Pro
			260					265					270		
Lys	Lys	Phe	Ile	Ala	Thr	Ile	Pro	Leu	Val	Met	Tyr	Leu	Ser	Gly	Phe
		275					280					285			
Leu	Ser	Ser	Phe	Leu	Met	Lys	Pro	Ile	Asn	Lys	Cys	Ile	Gly	Arg	Asn
	290					295					300				
Met	Thr	Tyr	Phe	Ser	Gly	Leu	Leu	Val	Ile	Leu	Ala	Phe	Ala	Ala	Trp
305					310					315					320
Val	Ala	Leu	Ala	Glu	Gly	Leu	Gly	Val	Ala	Val	Tyr	Ala	Ala	Ala	Val
				325					330					335	
Leu	Leu	Gly	Ala	Gly	Cys	Ala	Thr	Ile	Leu	Val	Thr	Ser	Leu	Ala	Met
			340					345					350		
Thr	Ala	Asp	Leu	Ile	Gly	Pro	His	Thr	Asn	Ser	Gly	Ala	Phe	Val	Tyr
		355					360					365			
Gly	Ser	Met	Ser	Phe	Leu	Asp	Lys	Val	Ala	Asn	Gly	Leu	Ala	Val	Met
		370				375					380				
Ala	Ile	Gln	Ser	Leu	His	Pro	Cys	Pro	Ser	Glu	Leu	Cys	Cys	Arg	Ala
385					390					395					400
Cys	Val	Ser	Phe	Tyr	His	Trp	Ala	Met	Val	Ala	Val	Thr	Gly	Gly	Val
				405					410					415	
Gly	Val	Ala	Ala	Ala	Leu	Cys	Leu	Cys	Ser	Leu	Leu	Leu	Trp	Pro	Thr

Ser Glu Gly Val Ala Ala Pro Arg Arg Leu Arg Arg Ala Ala Asp His
210 215 220

Asp Val Gly Ser Glu Leu Pro Pro Glu Gly Val Leu Gly Ala Leu Leu
225 230 235 240

Arg Val Lys Arg Leu Glu Thr Pro Ala Pro Gln Val Pro Ala Arg Arg
245 250 255

Leu Leu Pro Pro
260

<210> 675
<211> 95
<212> PRT
<213> Homo sapiens

<400> 675
Met His Leu Cys Ile Cys Ala Val Trp Val Leu Val Ala Leu Leu Arg
1 5 10 15

Met His Gly Ala Ser Pro Ala Gln Thr Ser Gly Thr Arg Ser Gly Asn
20 25 30

Gly Gly Cys Arg Arg His Gly Ala Gly Gln Gly Arg Gly Ala Ala Thr
35 40 45

Gln Pro Leu Arg Pro Pro Arg Gly Thr Ala Ser Gly Gln Leu Met Ala
50 55 60

Leu Leu Ser Ala Leu Leu Pro Arg Leu Ser Gly Ser Ser Thr Pro Met
65 70 75 80

Met Ala His Gly Arg Pro Ala Pro Pro Gln Trp Ser Arg Val Ser
85 90 95

<210> 676
<211> 130
<212> PRT
<213> Homo sapiens

<400> 676
Met Glu Thr Leu Gly Ala Leu Leu Val Leu Glu Phe Leu Leu Leu Ser
1 5 10 15

Pro Val Glu Ala Gln Gln Ala Thr Glu His Arg Leu Lys Pro Trp Leu
20 25 30

Val Gly Leu Ala Ala Val Val Gly Phe Leu Phe Ile Val Tyr Leu Val
35 40 45

Leu Leu Ala Asn Arg Leu Trp Cys Ser Lys Ala Arg Ala Glu Asp Glu

50 55 60
 Glu Glu Thr Thr Phe Arg Met Glu Ser Asn Leu Tyr Gln Asp Gln Ser
 65 70 75 80
 Glu Asp Lys Arg Glu Lys Lys Glu Ala Lys Glu Lys Glu Glu Lys Arg
 85 90 95
 Lys Lys Glu Lys Lys Thr Ala Lys Glu Gly Glu Ser Asn Leu Gly Leu
 100 105 110
 Asp Leu Glu Glu Lys Glu Pro Gly Asp His Glu Arg Ala Lys Ser Thr
 115 120 125
 Val Met
 130

<210> 677
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 677
 Met Ser Leu Ile Trp Arg Asp Val Tyr Leu Tyr Gly Cys Gly Cys Ile
 1 5 10 15
 Cys His Gly Arg Cys Cys Ala Gly Phe Pro Gln His Ser Arg His Val
 20 25 30
 Trp Arg Thr Asn Ala Gly Leu Ile Leu Pro Gly Asn Arg Val Pro Phe
 35 40 45
 Cys Glu Leu Glu Gly Cys Thr Arg Arg Ser Ser Tyr Trp Asn His Leu
 50 55 60
 Val Ile Leu Gly Gly His Trp Gly Leu His Leu Pro Cys Thr Ser Leu
 65 70 75 80

<210> 678
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 678
 Met Phe Pro Trp Cys Val Cys Val Ile Ala Cys Ile Ser Ala Val Thr
 1 5 10 15
 Pro Leu Ile Gln Gly Phe Thr Phe Cys Ser Phe Ser Tyr Pro Gln Tyr
 20 25 30

Ser Thr Val Arg Tyr Phe Glu Arg Glu Thr Thr Leu Thr Leu Leu Leu
 35 40 45

Leu

<210> 679
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 679
 Met Asn Leu Ser Phe Leu Ser Phe Phe Leu Phe Phe Tyr Leu Leu Trp
 1 5 10 15

Ser Pro Ala Glu Ser Val Tyr Lys Lys Gly Met Val Lys Lys Asn Leu
 20 25 30

Ser His Ser Ile Val Glu Lys Ile Lys
 35 40

<210> 680
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 680
 Met Met Gly Leu Leu Glu Thr Gly Asn Val Leu Phe Trp Val Trp Val
 1 5 10 15

Val Val Thr Cys Val Tyr Ser Leu Tyr Ala Asn Ser Leu Asn Cys Trp
 20 25 30

Asp Met Asp Cys Ala Pro Phe Tyr Met Cys Val Met Leu Gln Gln Lys
 35 40 45

Cys Gln
 50

<210> 681
 <211> 318
 <212> PRT
 <213> Homo sapiens

<400> 681
 Met Ala Lys Arg Thr Phe Ser Asn Leu Glu Thr Phe Leu Ile Phe Leu
 1 5 10 15

Leu Val Met Met Ser Ala Ile Thr Val Ala Leu Leu Ser Leu Leu Phe
 20 25 30

Ile Thr Ser Gly Thr Ile Glu Asn His Lys Asp Leu Gly Gly His Phe
 35 40 45
 Phe Ser Thr Thr Gln Ser Pro Pro Ala Thr Gln Gly Ser Thr Ala Ala
 50 55 60
 Gln Arg Ser Thr Ala Thr Gln His Ser Thr Ala Thr Gln Ser Ser Thr
 65 70 75 80
 Ala Thr Gln Thr Ser Pro Val Pro Leu Thr Pro Glu Ser Pro Leu Phe
 85 90 95
 Gln Asn Phe Ser Gly Tyr His Ile Gly Val Gly Arg Ala Asp Cys Thr
 100 105 110
 Gly Gln Val Ala Asp Ile Asn Leu Met Gly Tyr Gly Lys Ser Gly Gln
 115 120 125
 Asn Ala Gln Gly Ile Leu Thr Arg Leu Tyr Ser Arg Ala Phe Ile Met
 130 135 140
 Ala Glu Pro Asp Gly Ser Asn Arg Thr Val Phe Val Ser Ile Asp Ile
 145 150 155 160
 Gly Met Val Ser Gln Arg Leu Arg Leu Glu Val Leu Asn Arg Leu Gln
 165 170 175
 Ser Lys Tyr Gly Ser Leu Tyr Arg Arg Asp Asn Val Ile Leu Ser Gly
 180 185 190
 Thr His Thr His Ser Gly Pro Ala Gly Tyr Phe Gln Tyr Thr Val Phe
 195 200 205
 Val Ile Ala Ser Glu Gly Phe Ser Asn Gln Thr Phe Gln His Met Val
 210 215 220
 Thr Gly Ile Leu Lys Ser Ile Asp Ile Pro His Thr Asn Met Lys Pro
 225 230 235 240
 Gly Lys Ile Phe Ile Asn Lys Gly Asn Val Asp Gly Val Gln Ile Asn
 245 250 255
 Arg Ser Pro Tyr Ser Tyr Leu Gln Asn Pro Gh Ser Glu Arg Ala Arg
 260 265 270
 Tyr Ser Ser Asn Thr Asp Lys Glu Met Ile Val Leu Lys Met Val Asp
 275 280 285
 Leu Asn Gly Asp Asp Leu Gly Leu Ile Ser Phe Ser Phe Se Lys Ser
 290 295 300
 Ala Leu Gly Thr Tyr Tyr Glu Pro Arg Asn Thr Ser Leu Glu
 305 310 315

<210> 682

<211> 55
 <212> PRT
 <213> Homo sapiens

<400> 682
 Met Pro Gly Gly Arg Asp Gly Leu Leu Tyr Leu Tyr His Gly Tyr Ser
 1 5 10 15
 Ala Leu Leu Leu Trp Pro Val Ala Phe Leu His Leu Leu Phe Leu Ile
 20 25 30
 Leu Leu Gly Met Cys Phe Ala Cys Cys Ile Pro Thr Ser Ser Ala Pro
 35 40 45
 Leu His Thr Pro Trp Leu Ala
 50 55

<210> 683
 <211> 113
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 683
 Met Arg Pro Leu Leu Leu Gly Gly Tyr Trp Val Leu Cys Leu Ser Val
 1 5 10 15
 Leu Gly His Ala Ala Leu Tyr His Phe Trp Leu Arg Glu Glu Gly ~~ys~~
 20 25 30
 Gly Pro Pro Gln Val Xaa Ser Val Leu Ala Leu Ala Leu Pro Ala Gly
 35 40 45
 Ser Cys Ala Pro Gly Leu Pro Phe Pro Gly Pro Leu Ile Pro Thr Gln
 50 55 60
 Leu Leu Phe Ala Leu Glu Trp Gly Thr Pro Thr Pro Leu Arg Asp His
 65 70 75 80
 Pro Pro His Ser Met His Ser Ala Pro Gln Asn Pro Pro Val Phe Leu
 85 90 95
 Gly Thr His Thr Cys Pro Pro Ser Trp Tyr Phe Arg Leu Ile Pro Gln
 100 105 110
 Ala

<210> 684

<211> 87
 <212> PRT
 <213> Homo sapiens

<400> 684
 Met Asp Leu Thr Val Glu Gly Phe Gln Ser Trp Met Trp Arg Gly Leu
 1 5 10 15
 Thr Phe Leu Leu Pro Phe Leu Phe Phe Gly His Phe Trp Gln Leu Phe
 20 25 30
 Asn Ala Leu Thr Leu Phe Asn Leu Ala Gln Asp Pro Gln Cys Lys Glu
 35 40 45
 Trp Gln Val Leu Met Cys Gly Phe Pro Phe Leu Leu Leu Phe Leu Gly
 50 55 60
 Asn Phe Phe Thr Thr Leu Arg Val Val His His Lys Phe His Ser Gln
 65 70 75 80
 Arg His Gly Ser Lys Lys Asp
 85

<210> 685
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 685
 Met Ala Leu Ser Leu Thr Leu Cys Phe Val Met Phe Trp Thr Pro Asn
 1 5 10 15
 Val Ser Glu Lys Ile Leu Ile Asp Ile Ile Gly Val Asp Phe Ala Phe
 20 25 30
 Ala Glu Leu Cys Val Val Pro Leu Arg Ile Phe Ser Phe Phe Pro Val
 35 40 45
 Pro Val Thr Val Arg Ala His Leu Thr Gly Trp Leu Met Thr Leu Lys
 50 55 60
 Lys Thr Phe Val Leu Ala Pro Ser Ser Val Leu Arg Ile Ile Val Leu
 65 70 75 80
 Ile Ala Ser Leu Val Val Leu Pro Tyr Leu Gly Val His Gly Ala Thr
 85 90 95
 Leu Gly Val Gly Ser Leu Leu Ala Gly Phe Val Gly Glu Ser Thr Met
 100 105 110
 Val Ala Ile Ala Ala Cys Tyr Val Tyr Arg Lys Gln Lys Lys Lys Met
 115 120 125
 Glu Asn Glu Ser Ala Thr Glu Gly Glu Asp Ser Ala Met Thr Asp Met
 130 135 140

Pro Pro Thr Glu Glu Val Thr Asp Ile Val Glu Met Arg Glu Glu Asn
 145 150 155 160

Glu

<210> 686
 <211> 348
 <212> PRT
 <213> Homo sapiens

<400> 686
 Met Asn Met Thr Gln Ala Arg Val Leu Val Ala Ala Val Val Gly Leu
 1 5 10 15
 Val Ala Val Leu Leu Tyr Ala Ser Ile His Lys Ile Glu Glu Gly His
 20 25 30
 Leu Ala Val Tyr Tyr Arg Gly Gly Ala Leu Leu Thr Ser Pro Ser Gly
 35 40 45
 Pro Gly Tyr His Ile Met Leu Pro Phe Ile Thr Thr Phe Arg Ser Val
 50 55 60
 Gln Thr Thr Leu Gln Thr Asp Glu Val Lys Asn Val Pro Cys Gly Thr
 65 70 75 80
 Ser Gly Gly Val Met Ile Tyr Ile Asp Arg Ile Glu Val Val Asn Met
 85 90 95
 Leu Ala Pro Tyr Ala Val Phe Asp Ile Val Arg Asn Tyr Thr Ala Asp
 100 105 110
 Tyr Asp Lys Thr Leu Ile Phe Asn Lys Ile His His Glu Leu Asn Gln
 115 120 125
 Phe Cys Ser Ala His Thr Leu Gln Glu Val Tyr Ile Glu Leu Phe Asp
 130 135 140
 Gln Ile Asp Glu Asn Leu Lys Gln Ala Leu Gln Lys Asp Leu Asn Leu
 145 150 155 160
 Met Ala Pro Gly Leu Thr Ile Gln Ala Val Arg Val Thr Lys Pro Lys
 165 170 175
 Ile Pro Glu Ala Ile Arg Arg Asn Phe Glu Leu Met Glu Ala Glu Lys
 180 185 190
 Thr Lys Leu Leu Ile Ala Ala Gln Lys Gln Lys Val Val Glu Lys Glu
 195 200 205
 Ala Glu Thr Glu Arg Lys Lys Ala Val Ile Glu Ala Glu Lys Ile Ala
 210 215 220

Gln Val Ala Lys Ile Arg Phe Gln Gln Lys Val Met Glu LysGlu Thr
 225 230 235 240
 Glu Lys Arg Ile Ser Glu Ile Glu Asp Ala Ala Phe Leu Ala Arg Glu
 245 250 255
 Lys Ala Lys Ala Asp Ala Glu Tyr Tyr Ala Ala His LysTyr Ala Thr
 260 265 270
 Ser Asn Lys His Lys Leu Thr Pro Glu Tyr Leu Glu Leu Lys Lys Tyr
 275 280 285
 Gln Ala Ile Ala Ser Asn Ser Lys Ile Tyr Phe Gly Ser Asn Ile Pro
 290 295 300
 Asn Met Phe Val Asp Ser Ser Cys Ala Leu Lys Tyr Ser Asp Ile Arg
 305 310 315 320
 Thr Gly Arg Glu Ser Ser Leu Pro Ser Lys Glu Ala Leu Glu Pro Ser
 325 330 335
 Gly Glu Asn Val Ile Gln Asn Lys Glu Ser Thr Gly
 340 345

<210> 687
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 687
 Met Arg Arg Leu Leu Leu Val Thr Ser LeuVal Val Val Leu Leu Trp
 1 5 10 15
 Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30
 Lys His Trp Pro Ser Glu Gln Asp Pro Glu LysAla Trp Gly Ala Arg
 35 40 45
 Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 50 55 60
 Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln
 65 70 75 80
 Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu
 85 90 95
 Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp SerLeu
 100 105 110
 Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu
 115 120 125
 Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln

130 135 140
 Asp His Ile Tyr His Pro Gln
 145 150

<210> 688
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 688
 Met Gln Val Ala Cys Val Met Lys Val Ser Ala Gln Trp Val Cys Phe
 1 5 10 15
 Phe Val Val Phe Ser Pro Leu Cys Ser Ser Val Lys Cys Ala Ser Ser
 20 25 30
 Gly Gln Asn Arg Gly Arg Gly Asp Gln
 35 40

<210> 689
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 689
 Met Pro Leu Cys Gly Leu Tyr Cys Leu Arg Ile Leu Met Phe Pro Leu
 1 5 10 15
 Arg Ser Ala Asn Ser Val Pro Leu Gln Cys Leu Pro Pro Ser Ser Leu
 20 25 30
 Ala Asn Lys Asp Ser His Phe Arg Ala Pro Arg Lys
 35 40

<210> 690
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 690
 Met Thr Pro Leu Leu Thr Leu Ile Leu Val Val Leu Met Ey Leu Pro
 1 5 10 15
 Leu Ala Gln Ala Leu Asp Cys His Val Cys Ala Tyr Asn Gly Asp Asn
 20 25 30
 Cys Phe Asn Pro Met Arg Cys Pro Ala Met Val Ala Tyr Cys Mt Thr
 35 40 45
 Thr Arg Thr Tyr Tyr Thr Pro Thr Arg Met Lys Val Ser Lys Ser Cys

50 55 60
 Val Pro Arg Cys Phe Glu Thr Val Tyr Asp Gly Tyr Ser Lys His Ala
 65 70 75 80
 Ser Thr Thr Ser Cys Cys Gln Tyr Asp Leu Cys Asn Gly Thr Gly Leu
 85 90 95
 Ala Thr Pro Ala Thr Leu Ala Leu Ala Pro Ile Leu Leu Ala Thr Leu
 100 105 110
 Trp Gly Leu Leu
 115

<210> 691
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 691
 Met Pro Gly Ile Leu Ala Gly Ile Pro Val Lys Asp Leu Cys Leu Ser
 1 5 10 15
 Leu Leu Gln Gly Phe Arg Leu Leu Leu Leu Cys Val Cys Pro Gly Trp
 20 25 30
 Leu Ser Gly Trp Met Gly Gly Gln Lys Gly Ser Pro Arg Ile Val Asp
 35 40 45
 Ile Gly
 50

<210> 692
 <211> 206
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (143)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 692
 Met Ala Ser His Gly Leu Cys Pro Cys Leu Leu Met Gly ThrGly Trp
 1 5 10 15
 Gly Leu Trp Thr Leu Leu Pro Asp Leu Glu Val Met Ala Gly Lys Gly
 20 25 30
 Arg Met Pro Phe Ala Gly Ile Ser Val Thr Ser Gly Phe Leu ArgSer
 35 40 45
 Leu Lys Arg Ala Pro Leu Pro His Thr Gly Ser Pro Asp Pro Arg Pro

50	55	60
Ser Gly Ile Trp Ser Gly Val Arg Thr Thr Ser Glu Glu Ala Gly Ala		
65	70	75 80
Thr Ser Thr Gln Ile Ser Thr Ala Ala Pro Arg Phe His Ser Arg Arg		
	85	90 95
Lys Gly Pro Lys Arg Asn Leu Ala Pro Gln Leu Arg Val Leu Val His		
	100	105 110
Arg Thr Val Pro Pro Gly Gln Leu Val Tyr Ala Pro Gln Thr Val Asp		
	115	120 125
Ser Leu Arg Gly Thr Leu Leu Arg Pro Pro Ala Trp Leu Leu Xaa Gln		
	130	135 140
Val Pro Cys Phe Tyr Ser Gly Gln Pro Leu Leu Val Ser Ala Ser Val		
	145	150 155 160
Leu Cys Arg Asp Leu Met Gln Phe Leu Phe Leu Leu Lys Ser Tyr Leu		
	165	170 175
Leu Pro Phe Leu Glu Val Cys Arg Ile Gly Trp Glu Gln Ile Gln Arg		
	180	185 190
Ile Leu Gly Ala Gly Leu Trp Arg Gln Lys Glu Gly Asn Gly		
	195	200 205

<210> 693

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring amino acids

<400> 693

Met Ala Val Val Leu Ser Xaa Lys Xaa His Arg Gly Xaa Tyr Cys Gly
 1 5 10 15
 Arg Thr Ser Leu Leu Leu Ser Leu Leu Ser Cys Leu Leu Leu Leu Leu
 20 25 30
 Leu Leu Leu Leu Leu Leu Trp Ser Leu Ser Glu Ile Lys Thr Leu
 35 40 45
 Lys Leu Ile Cys Ile Leu Ser Ala Arg Asp Ala Asp Gly Ser Arg Ala
 50 55 60
 Lys Ser His Gly Phe Gln Ile Arg Tyr Ser Ala His Ser Phe Gln Gly
 65 70 75 80
 His Arg Phe Leu Lys Gly Pro Gly Phe Glu Glu Met Ala Asn Xaa Glu
 85 90 95
 Pro Ser Glu Asn Leu Ile Trp Lys Thr Cys Met
 100 105

<210> 694
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 694
 Met Leu Pro Ser Asn Trp Ser Gly Thr Trp Ala Leu Ile Gln Leu Ser
 1 5 10 15
 Ile Pro Phe Thr Leu Ala Phe His Gln ProAsn Lys Asn Gln Leu Thr
 20 25 30
 Gln Lys Lys Arg Lys Ala Pro Gln Gly Ser Phe Asp Pro Asp Ile Tyr
 35 40 45
 Ile Asp Ala Ile Gly Val Pro
 50 55

<210> 695
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 695
 Met Ser Arg Phe Ile Leu Asn His Leu Val Leu Ala Ile Pro Leu Arg
 1 5 10 15
 Val Leu Val Val Leu Trp Ala Phe Val Leu Gly Leu Ser Arg Val Met
 20 25 30
 Leu Gly Arg His Asn Val Thr Asp Val Ala Phe Gly Phe Phe Leu Gly
 35 40 45

Tyr Met Gln Tyr Ser Ile Val Asp Tyr Cys Trp Leu Ser Pro His Asn
50 55 60

Ala Pro Val Leu Phe Leu Leu Trp Ser Gln Arg
65 70 75

<210> 696
<211> 97
<212> PRT
<213> Homo sapiens

<400> 696
Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu
1 5 10 15
Leu Leu Leu Phe Thr Asp Thr Ser Asn Ser His Cys Leu Pro Pro Tyr
20 25 30
Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys
35 40 45
Ile Ser Ala Ala Tyr Val Leu Ala Thr Pro Pro Glu Pro Ser Phe Ile
50 55 60
Leu Val Gly Phe Ser Glu Ala Gly Phe Ala Gln Val Ala Cys Phe Leu
65 70 75 80
Lys Tyr Leu Phe Cys Arg Pro Phe Thr Arg His Gly Tyr Phe Tyr Ser
85 90 95

Gly

<210> 697
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring amino acids

<400> 697
Met Gly Phe Phe Leu Val Leu Val Met Glu Gln Ile Thr Leu Ala Tyr
1 5 10 15
Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu Thr Arg Ala Leu Leu
20 25 30
Gly Thr Val Asn Gly Gly Pro Gln His Trp His Asp Gly Pro Gly Val
35 40 45

Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser Ala Leu Arg Ala Cys
 50 55 60
 Val Leu Val Phe Ser Leu Ala Leu His Ser Val Phe Glu Gly Leu Ala
 65 70 75 80
 Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met Glu Leu Cys Leu Ala
 85 90 95
 Leu Leu Leu His Lys Gly Ile Leu Ala Val Ser Leu Ser Leu Arg Leu
 100 105 110
 Leu Gln Ser His Leu Arg Ala Gln Val Val Ala Gly Cys Gly Ile Leu
 115 120 125
 Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu Gly Ala Ala Leu Ala
 130 135 140
 Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln Ser Val Leu Glu Gly
 145 150 155 160
 Met Ala Ala Gly Thr Phe Xaa Tyr Ile Thr Phe Leu Glu Ile Leu Leu
 165 170 175
 Phe His Pro Lys Phe Lys Gly Val Ser Arg Arg
 180 185

<210> 698
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 698
 Met Ile Leu Ser Leu Leu Phe Ser Leu Gly Gly Pro Leu Gly Trp Gly
 1 5 10 15
 Leu Leu Gly Ala Trp Ala Gln Ala Ser Ser Thr Ser Leu Ser Asp Leu
 20 25 30
 Gln Ser Ser Arg Thr Pro Gly Val Trp Lys Ala Glu Ala Glu Asp Thr
 35 40 45
 Ser Lys Asp Pro Val Gly Arg Asn Trp Cys Pro Tyr Pro Met Ser Lys
 50 55 60
 Leu Val Thr Leu Leu Ala Leu Cys Lys Thr Glu Lys Phe Leu Ile His
 65 70 75 80
 Ser Gln Gln Pro Cys Pro Gln Glu Leu Gln Thr Ala Arg Lys Ser Lys
 85 90 95
 Ser Cys Thr Ala Trp Pro Thr Ser Gln Cys Thr Arg Ser Ser Arg Arg
 100 105 110

Cys

<210> 699
<211> 140
<212> PRT
<213> Homo sapiens

<220>'
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring amino acids

<400> 699
Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val
1 5 10 15
Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val
20 25 30
Trp Ser Arg Xaa Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu
35 40 45
Asn Phe Gln Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu
50 55 60
Leu Leu Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly
65 70 75 80
His Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly
85 90 95
Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp Thr
100 105 110
Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg Pro Gly
115 120 125
Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly
130 135 140

<210> 700
<211> 278
<212> PRT
<213> Homo sapiens

<400> 700
Met Gln Trp Leu Arg Val Arg Glu Ser Pro Gly Glu Ala Thr Gly His
1 5 10 15
Arg Val Thr Met Gly Thr Ala Ala Leu Gly Pro Val Trp Ala Ala Leu
20 25 30

Leu Leu Phe Leu Leu Met Cys Glu Ile Pro Met Val Glu Leu Thr Phe
 35 40 45
 Asp Arg Ala Val Ala Ser Asp Cys Gln Arg Cys Cys Asp Ser Glu Asp
 50 55 60
 Pro Leu Asp Pro Ala His Val Ser Ser Ala Ser Ser Ser Gly Arg Pro
 65 70 75 80
 His Ala Leu Pro Glu Ile Arg Pro Tyr Ile Asn Ile Thr Ile Leu Lys
 85 90 95
 Gly Asp Lys Gly Asp Pro Gly Pro Met Gly Leu Pro Gly Tyr Met Gly
 100 105 110
 Arg Glu Gly Pro Gln Gly Glu Pro Gly Pro Gln Gly Ser Lys Gly Asp
 115 120 125
 Lys Gly Glu Met Gly Ser Pro Gly Ala Pro Cys Gln Lys Arg Phe Phe
 130 135 140
 Ala Phe Ser Val Gly Arg Lys Thr Ala Leu His Ser Gly Glu Asp Phe
 145 150 155 160
 Gln Thr Leu Leu Phe Glu Arg Val Phe Val Asn Leu Asp Gly Cys Phe
 165 170 175
 Asp Met Ala Thr Gly Gln Phe Ala Ala Pro Leu Arg Gly Ile Tyr Phe
 180 185 190
 Phe Ser Leu Asn Val His Ser Trp Asn Tyr Lys Glu Thr Tyr Val His
 195 200 205
 Ile Met His Asn Gln Lys Glu Ala Val Ile Leu Tyr Ala Gln Pro Ser
 210 215 220
 Glu Arg Ser Ile Met Gln Ser Gln Ser Val Met Leu Asp Leu Ala Tyr
 225 230 235 240
 Gly Asp Arg Val Trp Val Arg Leu Phe Lys Arg Gln Arg Glu Asn Ala
 245 250 255
 Ile Tyr Ser Asn Asp Phe Asp Thr Tyr Ile Thr Phe Ser Gly His Leu
 260 265 270
 Ile Lys Ala Glu Asp Asp
 275

<210> 701

<211> 354

<212> PRT

<213> Homo sapiens

<400> 701

Met Trp Arg Leu Trp Pro Gly Ser Pro Leu Val Pro Leu Ser Trp Leu

1	5	10	15
Trp	Pro	Ala	Arg
	20		
Ala	Ala	Phe	Leu
		25	
Ser	Gly	Pro	Trp
			30
Thr	Leu	Pro	Pro
Cys	Leu	Pro	Asp
	35		
Pro	Leu	Leu	Ala
		40	
Val	Pro	Lys	Cys
			45
Cys	Leu	Thr	Leu
Gly	Ile	His	Leu
	50		
Leu	Pro	Ala	Trp
		55	
Pro	Gly	Pro	Pro
			60
Val	Gly	Gly	Gly
Cys	Ser	Gln	Leu
	65		
His	Arg	Gly	Cys
		70	
Cys	Cys	Tyr	Pro
			75
Gly	Met	Gly	Cys
			80
Leu	Asn	Arg	Asp
Arg	Asp	Leu	Cys
		85	
Pro	Pro	Ser	Leu
			90
Val	Ser	Arg	Arg
Trp	Gly	Asp	Leu
			95
Gln	Leu	Leu	Trp
Ser	Pro	Asp	Gly
			100
Ser	Lys	Ile	Leu
Ala	Thr	Thr	Pro
			110
Thr	Cys	Glu	Arg
Ser	Ala	Val	Phe
			115
Arg	Val	Trp	Glu
			120
Ala	Gln	Met	Trp
Thr	Thr	Cys	Glu
			125
Arg	Trp	Cys	Trp
Pro	Ser	Pro	Asp
Asp	Leu	Ser	Gly
			130
Arg	Cys	Gln	Thr
Gly	Gly	Cys	Trp
			140
Leu	Glu	Pro	Leu
Ile	Tyr	Ser	
Gly	Ser	Arg	Leu
Leu	Phe	Thr	Val
			150
Leu	Gly	Glu	Pro
			155
Leu	Gly	Lys	Gly
Cys	Val	Gly	Gly
			175
Leu	Ser	Phe	Pro
Glu	Arg	Cys	Gly
			165
Ala	Lys	Ser	Ala
Thr	Ile	Val	Ala
Asp	Leu	Ser	Glu
Thr	Thr	Ile	Gln
			190
Thr	Pro	Asp	Gly
Glu	Glu	Arg	Leu
			200
Gly	Gly	Glu	Ala
His	Ser	Met	Val
			205
Trp	Asp	Pro	Ser
Gly	Glu	Arg	Leu
			215
Ala	Val	Leu	Met
			220
Lys	Gly	Lys	Pro
Arg	Val	Gln	Asp
Gly	Lys	Pro	Val
Ile	Leu	Leu	Phe
			235
Arg	Thr	Arg	Asn
			240
Ser	Pro	Val	Phe
Glu	Leu	Leu	Pro
Cys	Gly	Ile	Ile
Gln	Gly	Glu	Pro
			255
Gly	Ala	Gln	Pro
Gln	Leu	Ile	Thr
Phe	His	Leu	Pro
Ser	Thr	Lys	Gly
			270
Pro	Cys	Ser	Val
Trp	Ala	Gly	Pro
Gln	Ala	Glu	Leu
Pro	Thr	Ser	Arg
Cys	Thr	Leu	Ser
Met	Pro	Ser	Phe
His	Val	Leu	Ala
Gln	Cys	Leu	Gly
Gly	Pro	Arg	Asn
Pro	Leu	Leu	Gly
Val	Glu	Ala	Leu
Phe	Met	Thr	Cys

305 310 315 320
 Pro Ser Leu Leu Arg His Pro Gln Pro Leu Pro Leu Gly Thr Leu Ser
 325 330 335
 Gln Gly His His Leu Phe Cys Pro Thr Pro His Ile Pro Thr Ser Lys
 340 345 350
 Asn Lys

<210> 702
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 702
 Met Ile Arg Ile Gln Phe Leu His Leu Phe Leu Trp Val Gly Phe Ile
 1 5 10 15
 Phe Arg Gln Pro Pro Ser Ser Tyr Pro Gln Asp Gly Arg Asp Ser Pro
 20 25 30
 Trp Ser Phe Pro Cys Arg Asp Arg Ser Pro Gly Asn Asn Thr Ser Ile
 35 40 45
 Pro Ser His Glu Thr Val Leu Asn Phe Ile Leu Thr
 50 55 60

<210> 703
 <211> 232
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring amino acids

<400> 703
Met Ala Ile Ser Ile Pro Asn Arg Ile Phe Pro Ile Thr Ala Leu Thr
  1               5               10               15

Leu Leu Ala Leu Val Tyr Ser Leu Val Leu Leu Leu Pro Phe Tyr Asn
      20               25               30

Cys Thr Glu Xaa Thr Lys Tyr Arg Arg Phe Pro Asp Trp Leu Asp His
      35               40               45

Trp Met Leu Cys Arg Lys Gln Leu Gly Leu Val Ala Leu Gly Phe Ala
      50               55               60

Phe Leu Xaa Val Leu Xaa Xaa Leu Val Ile Pro Ile Arg Tyr Tyr Val
      65               70               75               80

Arg Xaa Arg Leu Gly Asn Leu Thr Val Thr Gln Xaa Ile Leu Lys Lys
      85               90               95

Glu Asn Pro Phe Ser Thr Ser Ser Ala Trp Leu Ser Asp Ser Tyr Val
      100              105              110

Ala Leu Gly Ile Leu Gly Phe Phe Leu Phe Val Leu Leu Gly Ile Thr
      115              120              125

Ser Leu Pro Ser Val Ser Asn Ala Val Asn Trp Arg Glu Phe Arg Phe
      130              135              140

Val Gln Ser Lys Leu Gly Tyr Leu Thr Leu Ile Leu Cys Thr Ala His
      145              150              155              160

Thr Leu Val Tyr Gly Gly Lys Arg Phe Leu Ser Pro Ser Asn Leu Arg
      165              170              175

Trp Tyr Leu Pro Ala Ala Tyr Val Leu Gly Leu Ile Ile Pro Cys Thr
      180              185              190

Val Leu Val Ile Lys Phe Val Leu Ile Met Pro Cys Val Asp Asn Thr
      195              200              205

Leu Thr Arg Ile Arg Arg Ala Gly Lys Gly Thr Gln Asn Thr Arg Lys
      210              215              220

Ser Ile Glu Trp Lys Ile Asn Ile
      225              230

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<210> 704
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 704
 Met Thr Leu Ser Leu Gln Leu Ala Glu Leu Val His Phe Val Cys Ala
 1 5 10 15
 Phe Gln Ser Gln Trp Thr Gly Val Tyr Pro Met Met Pro Pro Leu Lys
 20 25 30
 Pro Thr Glu Pro Leu Cys Phe Ala Cys Val Pro Cys Arg Val
 35 40 45

<210> 705
 <211> 152
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

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 <222> (93)

<223> Xaa equals any of the naturally occurring amino acids

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<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring amino acids

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<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring amino acids

<400> 705

Met Asp His Ser Pro Thr Thr Gly Val Val Thr Val Ile Val Ile Leu
1 5 10 15

Ile Ala Ile Ala Ala Leu Gly Ala Phe Asp Pro Gly Leu Leu Val Leu
20 25 30

Pro Ala Ala Ala Ala His Gln Pro Val Arg Gly Arg Gly Glu His Arg
35 40 45

Gly Gly Trp Gly Asp Gln Gly Thr Leu Pro Ala Gly Ala Val Phe Gly
50 55 60

Gln Xaa Thr Val Arg Gly Glu Lys Gly Gln Ala Asp Xaa Ser Gln Thr
65 70 75 80

Xaa Arg Lys Xaa Thr Xaa Xaa Pro Gly Gln Lys Gly Xaa Leu Val Pro
85 90 95

Val Cys Lys Pro Ala Lys Xaa Gly Leu Gly Gly Ala Lys Xaa Ile Arg
100 105 110

Met Arg Cys Cys Leu Arg Gly Arg Ala Asp Thr Cys Trp His Gly Leu
115 120 125

Cys Gly Phe Arg Pro Ser His Ala Leu Met Pro Gly Asp Leu Ala Val
130 135 140

Leu Gly Phe Pro Ser Ala Ser Arg
145 150

<210> 706

<211> 88

<212> PRT

<213> Homo sapiens

<400> 706

Met Val Ala Gly Phe Val Phe Tyr Leu Gly Val Phe Val Val Cys His
1 5 10 15

Gln Leu Ser Ser Ser Leu Asn Ala Thr Tyr Arg Ser Leu Val AlaArg
20 25 30

Glu Lys Val Phe Trp Asp Leu Ala Ala Thr Arg Ala Val Phe Gly Val
 35 40 45
 Gln Ser Thr Ala Ala Ala Val Gly Ser Ala Gly Gly Pro Cys Ala Ala
 50 55 60
 Cys Arg Gln Gly Ala Trp Pro Ala Glu Leu Val Leu Val Ser His His
 65 70 75 80
 Asp Ser Asn Gly Ile Leu Leu Leu
 85

<210> 707
 <211> 340
 <212> PRT
 <213> Homo sapiens

<400> 707
 Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
 1 5 10 15
 Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
 20 25 30
 Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
 35 40 45
 Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
 50 55 60
 Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
 65 70 75 80
 Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
 85 90 95
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
 100 105 110
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
 115 120 125
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
 130 135 140
 Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu
 145 150 155 160
 Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu
 165 170 175
 Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln
 180 185 190
 Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg